

## JOURNALS FROM WHICH ABSTRACTS ARE MADE.

The following is a list of the principal Journals from which abstracts are made (directly or indirectly) by the Bureau of Chemical Abstracts. Further information regarding any of these Journals may be obtained from the Secretary of the Bureau.

| ABBREVIATED TITLE.                      | JOURNAL.  | ABBREVIATED TITLE.                | JOURNAL.  |
|---|---|-----------------------------------|---|
| Abh. Bohm. Akad. .                      | Abhandlungen der Bohmischen Akademie.                                 | Ann. sci. Univ. Jassy.            | Annales scientifiques de l'Université de Jassy.   |
| Acta Bot. Fennica .                     | Acta Botanica Fennica.  | Apoth.-Ztg.                       | Apotheker-Zeitung.  |
| Acta Phytochim.                         | Acta Phytochimica.  | Arb. Biol. Reichanst.             | Arbeiten der Biologisches Reichanstalt  |
| Acta Sci. Fennicae .                    | Acta Societatis Scientiarum Fennicae.                                 | Land- u. Forst-                   | fur Land- und Forstwirtschaft.  |
| Agric. Eng.                             | Agricultural Engineering.   | wirts.                            |   |
| Agric. Gaz. New South Wales             | Agricultural Gazette of New South Wales.                              | Arb. Gebiet. Physik, Math., Chem. | Arbeiten aus dem Gebiete der Physik, Mathematik und Chemie.   |
| Agric. Live-stock India                 | Agriculture and Live-stock in India.                                  | Arch. Biol.                       | Archives de Biologie.   |
| Agric. Res. Inst., Pusa, Rep. (Bull.) . | Agricultural Research Institute, Pusa, Reports and Bulletins.         | Arch. Eisenhuttenw. .             | Archiv. für das Eisenhüttenwesen.   |
| Allgem. Oel- Fett-Ztg.                  | Allgemeine Oel- und Fett-Zeitung.                                     | Arch. exp. Path. Pharm.           | Archiv für experimentelle Pathologie Pharmakologie.   |
| Allgem. Z. Bierbrau. .                  | Allgemeine Zeitschrift für Bierbrauerei und Malzfabrikation.          | Arch. Farm. sperim.               | Archivio di Farmacologia sperimentale e Scienza affini.   |
| Amer. Dyestuff Rep.                     | American Dyestuff Reporter.   | Arch. Gewerbepath.                | Archiv für Gewerbepathologie und Gewerbehygiene.  |
| Amer. Inst. Min. Met. Eng. Publ. .      | American Institute of Mining and Metallurgical Engineers Publication. | Arch. Int. Med.                   | Archives of Internal Medicine.  |
| Amer. J. Bot. .                         | American Journal of Botany.   | Arch. Ist. Biochim. Ital. .       | Archivio dello Istituto Biochimico Italiano.  |
| Amer. J. Dis. Children                  | American Journal of Diseases of Children.                             | Arch. Med. Pharm. milit. .        | Archives de Médecine et de Pharmacie militaires.  |
| Amer. J. Pharm.                         | American Journal of Pharmacy.   | Arch. Mikrobiol.                  | Archiv für Mikrobiologie.   |
| Amer. J. Physiol.                       | American Journal of Physiology.                                       | Arch. Min. Soc. Sci. Varsovie     | Archives de Mineralogie de la Société des Sciences de Varsovie (Archivum Mineralogiczne Towarzystwa Naukowego Warszawskiego). |
| Amer. J. Publ. Health                   | American Journal of Public Health and the Nation's Health.            | Arch. Néerland.                   | Archives Néerlandaises de sciences exactes et naturelles.   |
| Amer. J. Sci. .                         | American Journal of Science.  | Arch. Néerland. Physiol.          | Archives Néerlandaises de Physiologie de l'Homme et des Animaux.  |
| Amer. Min.                              | American Mineralogist.  | Arch. Pflanzenbau                 | Archiv für Pflanzenbau.   |
| Amer. Ink Maker                         | American Ink Maker.   | Arch. Pharm. .                    | Archiv der Pharmazie.   |
| Amer. Paint J.                          | American Paint Journal.   | Arch. Protistenk.                 | Archiv für Protistenkunde.  |
| Amer. Paint. & Var. Manuf. Assoc. Circ. | American Paint and Varnish Manufacturers' Association Circulars.      | Arch. Sci. phys. nat. .           | Archives des Sciences physique et naturelles.   |
| Anal. Asoc. Quím. Argentina             | Anales de la Asociación Química Argentina.                            | Arch. Suikerind. Ned-Indio .      | Archief voor de Suikerindustrie in Nederlandsch-Indie.  |
| Anal. Fis. Quím.                        | Anales de la Sociedad Española de Física y Química.                   | Arch. Tierernahrung u. Tierzucht  | Archiv für Tierernahrung und Tierzucht.   |
| Anal. Inst. invest. cient. tecn. .      | Anales del Instituto de investigaciones científicas y tecnológicas.   | Arh. Hemiju                       | Arhiv za Hemiju i Farmaciju.  |
| Analyst .                               | Analyst.  | Arizona Agric. Exp. Sta. Bull.    | Arizona Agricultural Experiment Station Bulletin.   |
| Anat. Rec.                              | Anatomical Record.  | Arkiv Kemi, Min., Geol. .         | Arkiv for Kemi, Mineralogi och Geologi.   |
| Angew. Bot.                             | Angewandte Botanik.   | Astrophys. J. .                   | Astrophysics Journal.   |
| Angew. Chem. .                          | Angewandte Chemie (changed from Z. angew. Chem. in 1932).             | Atti R. Accad. Lincei             | Atti della Reale Accademia Nazionale dei Lincei.  |
| Anilinokras. Prom. .                    | Anilinokrasotschnaja Promischlennosti.                                | Atti R. Accad. Sci. Torino .      | Atti della Reale Accademia delle Scienze di Torino.   |
| Ann. Acad. Brasil Sci.                  | Anais da Academia Brasileira de Ciencias.                             | Austral. J. Exp. Biol.            | Australian Journal of Experimental Biology and Medicine.  |
| Annalen .                               | Justus Liebig's Annalen der Chemie.                                   | B.P.                              | British Patent.   |
| Ann. agron.                             | Annales agronomique.  | Ber.                              | Berichte der deutschen chemischen Gesellschaft.   |
| Ann. Appl. Biol.                        | Annals of Applied Biology.  | Ber. dout. bot. Ges. .            | Berichte der deutschen botanischen Gesellschaft.  |
| Ann. Bot.                               | Annals of Botany.   | Ber. Ges. Kohlentechn.            | Berichte der Gesellschaft für Kohlentechnik.  |
| Ann. di Bot.                            | Annali di Botanica.   | Ber. Ohara Inst.                  | Berichte des Ohara Instituts für landwirtschaftliche Forschungen.   |
| Annali Chim. Appl. .                    | Annali di Chimica Applicata.  | Ber. Sachs. Akad. Wiss. .         | Berichte über die Verhandlungen der Sächsischen Akademie der Wissenschaften zu Leipzig.                                       |
| Ann. Chim.                              | Annales de Chimie.  | Berlin. Klin. Woch. .             | Berliner Klinische Wochenschrift.   |
| Ann. Chim. Analyt. .                    | Annales de Chimie Analytique et de Chimie Appliquee.                  | Bied. Zentr.                      | Biedermann's Zentralblatt.  |
| Ann. Falsif.                            | Annales des Falsifications.   |                                   |   |
| Ann. Guebhard-Severine                  | Annales Guebhard-Severine.  |                                   |   |
| Ann. Inst. Anal Phys. Chim.             | Annales de l'Institut d'Analyse Physico-chimique.                     |                                   |   |
| Ann. Inst Pasteur                       | Annales de l'Institut Pasteur.  |                                   |   |
| Ann. Inst. Platine                      | Annales de l'Institut du Platine et des autres Metaux Precieux.       |                                   |   |
| Ann. Physik                             | Annalen der Physik.   |                                   |   |
| Ann. Physique                           | Annales de Physique.  |                                   |   |
| Ann. R. Staz. Chim. Agrar. Sperim.      | Annali della R. Stazione Chimico Agraria Sperimentale di Roma.        |                                   |   |
| Ann. Soc. Sci. Bruxelles                | Annales de la Société Scientifique de Bruxelles.                      |                                   |   |

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| Bied. Zentr. (Tierernähr.)                 | Biedermann's Zentralblatt (Tierernahrung).   | Bull. Mat. Grasses                          | Bulletin des Matieres Grasses.  |
| Biochem. J.                                | Biochemical Journal.   | Bull. Photogrammétric                       | Bulletin de Photogrammétrie.  |
| Biochem. Z.                                | Biochemische Zeitschrift.  | Bull. School Mines and Met., Univ. Missouri | Bulletin of the School of Mines and Metallurgy, University of Missouri.   |
| Bol. Acad. Nac. Ciencias, Cordoba          | Boletin de la Academia Nacional de Ciencias, Cordoba.  | Bull. Sci. Pharmacol.                       | Bulletin des Sciences Pharmacologiques.   |
| Bol. Soc. Quim. Peru                       | Boletin de la Sociedad Quimica del Peru.   | Bull. Sericult., Japan                      | Bulletin of Sericulture and Silk Industry, Japan.   |
| Boll. Chim. farm.                          | Bollettino Chimico-Farmaceutico.   | Bull. Soc. chim.                            | Bulletin de la Société chimique de France.  |
| Boll. Soc. Geol. Ital.                     | Bollettino della Società Geologica Italiana.   | Bull. Soc. chim. Belg.                      | Bulletin de la Société chimique de Belgique.  |
| Boll. Soc. ital. Biol. sperim.             | Bollettino della Società italiana di Biologia sperimentalla.   | Bull. Soc. Chim. biol.                      | Bulletin de la Société de Chimie biologique.  |
| Boll. Soc. Med.-Chirurg.                   | Bollettino della Società Medico-Chirurgica, Pavia.   | Bull. Soc. Chim.                            | Bulletin de la Société Chimique du Yougoslav.   |
| Boll. Staz. Sperim. Ind. Carta Fibre Tess. | Bollettino del Reparto Fibre Tessili Vegetali della R. Stazione Sperimentale per l'Industria della Carta e delle Fibre Tessili Vegetali. | Bull. Soc. d'Encour.                        | Bulletin de la Société d'Encouragement pour l'Industrie Nationale.  |
| Boll. Uff. Staz. Sperim. Ind. Essenze      | Bollettino Ufficiale della R. Stazione Sperimentale per l'Industria delle Essenze e dei Derivati dagli Agrumi in Reggio Calabria.        | Bull. Soc. Franç. Phot.                     | Bulletin de la Société Française de Photographie.   |
| Boll. Uff. Staz. Sperim. Ind. Pelli        | R. Stazione Sperimentale per l'Industria delle Pelli e delle materie concianti, Bollettino Ufficiale.                                    | Bull. Soc. Ind. Mulhouse                    | Bulletin de la Société Industrielle de Mulhouse.  |
| Bot. Archiv                                | Botanisches Archiv.  | Bur. Stand. J. Res.                         | Bureau of Standards Journal of Research (now changed to Journal of Research of the National Bureau of Standards). |
| Bot. Gaz.                                  | Botanical Gazette.   | Canada Dept. Mines Publ.                    | Canada Department of Mines Publications.  |
| Brass. Malt.                               | Brasserie et Malterie.   | Canad. Chem. Met.                           | Canadian Chemistry and Metallurgy.  |
| Brau- u. Malzind.                          | Brau- u. Malzindustrie.  | Canad. J. Res.                              | Canadian Journal of Research.   |
| Braunkohle                                 | Braunkohle.  | Caoutchouc et Gutta-Percha                  | Le Caoutchouc et le Gutta-Percha.   |
| Brennstoff-Chem.                           | Brennstoff-Chemie.   | Cellulosechem.                              | Cellulosechemie.  |
| Brewers' J.                                | Brewers' Journal.  | Cement                                      | Cement and Cement Manufacture.  |
| Brit. Guiana Dept. Agric. Bull.            | British Guiana Department of Agriculture Bulletin.   | Cereal Chem.                                | Cereal Chemistry.   |
| Brit. J. Phot.                             | British Journal of Photography.  | Ch. Abs.                                    | Chemical Abstracts.   |
| Brit. J. Phys. Med.                        | British Journal of Physical Medicine.  | Chem. Age                                   | Chemical Age.   |
| Brit. Med. J.                              | British Medical Journal.   | Chem. App.                                  | Chemische Apparatur.  |
| Brit. Plastics                             | British Plastics and Moulded Products Trader.  | Chem. Eng. Min. Rev.                        | Chemical Engineering and Mining Review.   |
| Bul. Chim.                                 | Buletinul Chimie.  | Chem. Erde                                  | Chemie der Erde.  |
| Bul. Chim. Soc. Romane                     | Buletinul de Chimie pura si aplicata al Societatii Romano de Chimie.   | Chem. Fabr.                                 | Die Chemische Fabrik.   |
| Bul. Soc. Chim. Romania                    | Buletinul Societatii de Chimie din Romania.  | Chem. and Ind.                              | Chemistry and Industry.   |
| Bul. Soc. Fiz. Romania                     | Buletinul Bilunar al Societatii de Fizica din Romania.   | Chem. Ind.                                  | Chemische Industrie.  |
| Bul. Soc. Romane Stiin.                    | Buletinul Societatii Romane de Stiinte.  | Chem. Listy                                 | Chemické Listy pro Vědu a Průmysl. Organ de la "Česká chemická Společnost pro Vědu a Průmysl."                    |
| Bull. Acad. Polonaise                      | Bulletin Internationale de l'Académie Polonaise des Sciences et des Lettres.   | Chem. Met. Eng.                             | Chemical and Metallurgical Engineering.   |
| Bull. Acad. roy. Belg.                     | Académie royale de Belgique—Bulletin de la Classe des Sciences.  | Chem. Social. Agric.                        | Chemisation of Socialistic Agriculture (U.S.S.R.).  |
| Bull. Acad. Sci. Agra & Oudh               | Bulletin of the Academy of Sciences of Agra and Oudh.  | Chem. Trade J.                              | Chemical Trade Journal.   |
| Bull. Acad. Sci. U.R.S.S.                  | Bulletin de l'Académie des Sciences de l'Union des Républiques Socialistes.  | Chem. Weekblad                              | Chemisch Weekblad.  |
| Bull. Acad. Sci. Roumaine                  | Bulletin de la Section Scientifique de l'Académie Roumaine.  | Chem.-Ztg.                                  | Chemiker-Zeitung.   |
| Bull. Amer. Ceram. Soc.                    | Bulletin of the American Ceramic Society.  | Chem. Zentr.                                | Chemisches Zentralblatt.  |
| Bull. Assoc. Chim. Sucr.                   | Bulletin de l'Association des Chimistes de Sucrerie et de Distillerie.   | Chim. cl'Ind.                               | La Chimica e l'Industria.   |
| Bull. Chem. Soc. Japan                     | Bulletin of the Chemical Society of Japan.   | Chim. et Ind.                               | Chimie et Industrie.  |
| Bull. Entomol. Res.                        | Bulletin of Entomological Research.  | Chinese Med. J.                             | Chinese Medical Journal.  |
| Bull. Forest Exp. Stat. Meguro             | Bulletin of the Forest Experiment Station, Meguro, Tokyo.  | Chinese J. Physiol.                         | Chinese Journal of Physiology.  |
| Bull. Geol. Survey, U.S.A.                 | Bulletin of the U.S. Geological Survey.  | Coll. Czech. Chem. Comm.                    | Collection of Czechoslovak Chemical Communications.   |
| Bull. Imp. Inst.                           | Bulletin of the Imperial Institute.  | Collegium                                   | Collegium.  |
| Bull. Inst. Min. Met.                      | Bulletin of the Institution of Mining and Metallurgy.  | Colorado Agric. Exp. Sta. Bull.             | Colorado Agricultural Experiment Station Bulletin.  |
| Bull. Inst. Phys. Chem. Res., Japan        | Bulletin of the Institute of Physical and Chemical Research, Japan (Rikagaku Kenkyujo Ihō).  | Compt. rend.                                | Comptes rendus hebdomadaires des Séances de l'Académie des Sciences.  |
| Bull. Inst. Pin                            | Bulletin de l'Institut du Pin.   | Compt. rend. Acad. Agric. France            | Comptes rendus hebdomadaires des Séances de l'Académie d'Agriculture de France.                                   |
| Bull. Johns Hopkins Hosp.                  | Bulletin of the Johns Hopkins Hospital.  | Compt. rend. Acad. Sci. U.R.S.S.            | Comptes rendus de l'Académie des Sciences de l'U.R.S.S.   |
| Bull. Math. Phys. Bucarest                 | Bulletin de Mathematiques et de Physique pure et appliquées de l'Ecole Polytechnique "Roi Carol II" Bucarest.                            | Compt. rend. Soc. Biol.                     | Comptes rendus hebdomadaires de Séances de la Société de Biologie.  |
|  |  | Compt. rend. Trav. Lab. Carlsberg           | Comptes rendus des Travaux du Laboratoire Carlsberg.  |
|  |  | Contr. Boyce Thompson Inst.                 | Contributions from Boyce Thompson Institute.  |
|  |  | Cornell Univ. Agric. Exp. Sta. Bull.        | Cornell University Agricultural Experiment Station Bulletin.  |
|  |  | Current Sci.                                | Current Science.  |

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| Dansk Tidsskr. Farm.                  | Dansk Tidsskrift for Farmaci.  | Jahrb. Min. Beil.-Bd.              | Neues Jahrbuch für Mineralogie, Geologie und Paläontologie, Beilage-Band.   |
| Delaware Agric. Exp. Sta. Bull.       | Delaware Agricultural Experiment Station Bulletin.   | Jahrb. Radioaktiv. .               | Jahrbuch der Radioaktivität und Elektronik.                                 |
| Dept. Chem. S. Australia, Bull.       | Department of Chemistry, South Australia, Bulletins.   | Jahrb. wiss. Bot.                  | Jahrbuch für wissenschaftliche Botanik.                                     |
| Deut. med. Woch.                      | Deutsche medizinische Wochenschrift.   | Jahresber. Ges.                    | Jahresbericht der schlesischen Gesellschaft für vaterländische Kultur.      |
| Ecology .                             | Ecology.   | Japan. J. Med. Sci. .              | Japanese Journal of Medical Sciences.                                       |
| Econ. Geol. .                         | Economic Geology.  | Japan. J. Physics.                 | Japanese Journal of Physics.  |
| Econ. Proc. Roy. Dublin Soc. .        | Economic Proceedings of the Royal Dublin Society.  | Japan Nickel Rev. .                | Japan Nickel Review.  |
| Empire J. Exp. Agric.                 | Empire Journal of Experimental Agriculture.  | Jernk. Ann.                        | Jern-kontorets Annaler.   |
| Endocrinol.                           | Endocrinology.   | J. Agric. Res. .                   | Journal of Agricultural Research.   |
| Engineering                           | Engineering.   | J. Agric. Sci. .                   | Journal of Agricultural Science.  |
| Eng. and Min. J.                      | Engineering and Mining Journal.  | J. Amer. Ceram. Soc.               | Journal of the American Ceramic Society.                                    |
| Eng. News-Rec.                        | Engineering News-Record.   | J. Amer. Chem. Soc.                | Journal of the American Chemical Society.                                   |
| Ernähr. Pflanze                       | Ernährung der Pflanze.   | J. Amer. Leather Chem. Assoc.      | Journal of the American Leather Chemists' Association.                      |
| F.P.                                  | French Patent.   | J. Amer. Med. Assoc..              | Journal of the American Medical Association.                                |
| Facts about Sugar .                   | Facts about Sugar.   | J. Amer. Pharm. Assoc.             | Journal of the American Pharmaceutical Association.                         |
| Farbe u. Lack .                       | Farbe und Lack.  | J. Amer. Soc. Agron..              | Journal of the American Society of Agronomy.                                |
| Farben-Chem. .                        | Farben-Chemiker.   | J. Amer. Water Works Assoc. .      | Journal of the American Water Works Association.                            |
| Farben-Ztg.                           | Farben-Zeitung.  | J. Annamalai Univ. .               | Journal of the Annamalai University.  |
| Fermentforsch..                       | Fermentforschung.  | J. Appl. Chem. Russia              | Journal of Applied Chemistry, Russia.                                       |
| Fettechem. Umschau .                  | Fettechemische Umschau.  | J. Assoc. Off. Agric. Chem.        | Journal of the Association of Official Agricultural Chemists.               |
| Feuerfest                             | Feuerfest.   | J. Bact. . . .                     | Journal of Bacteriology.  |
| Feuerungstechnik                      | Feuerungstechnik.  | J. Biochem. Japan .                | Journal of Biochemistry, Japan.   |
| Finska Kem. Medd. .                   | Finska Kemistisamfundets Meddelanden (Suomen Kemistiseuran Tiedonantaja).  | J. Biol. Chem. .                   | Journal of Biological Chemistry.  |
| Florida Agric. Exp. Sta. Bull.        | Florida Agricultural Experiment Station Bulletin.  | J. Canad. Min. Inst. .             | Journal of the Canadian Mining Institute.                                   |
| Food                                  | Food.  | J. Cancer Res. Comm. Sydney        | Journal of the Cancer Research Committee of the University of Sydney.       |
| Food Manuf. .                         | Food Manufacture.  | J. Cell. Comp. Physiol.            | Journal of Cellular and Comparative Physiology.                             |
| Forstarchiv                           | Forstarchiv.   | J. Cellulose Inst. Tokyo           | Cellulose Industry, Journal of the Cellulose Institute, Tokyo.              |
| Fruit Prod. J. .                      | Fruit Products Journal.  | J. Chem. Ind. Russ. .              | Journal of Chemical Industry, Russia.                                       |
| Fuel                                  | Fuel in Science and Practice.  | J. Chem. Met. Soc. S. Africa       | Journal of the Chemical, Metallurgical, and Mining Society of South Africa. |
| Fuel Econ.                            | Fuel Economist.  | J. Chem. Physics                   | Journal of Chemical Physics.  |
| Fuel Econ. Rev.                       | Fuel Economy Review.   | J. Chem. Soc. Japan .              | Journal of the Chemical Society of Japan. (Nippon Kwagaku Kwai Shi.)        |
| G.P.                                  | German Patent.   | J. Chim. phys. .                   | Journal de Chimie physique.   |
| Gas J. .                              | Gas Journal.   | J. Chinese Chem. Soc.              | Journal of the Chinese Chemical Society.                                    |
| Gas- u. Wasserfach .                  | Gas- und Wasserfach.   | J. Coll. Agric. Hokkaido           | Journal of the College of Agriculture, Hokkaido Imperial University, Japan. |
| Gas World                             | Gas World.   | J. Coll. Agric. Tokyo .            | Journal of the College of Agriculture, Imperial University of Tokyo, Japan. |
| Gazzetta .                            | Gazzetta chimica italiana.   | J. Coll. Eng. Tokyo .              | Journal of the College of Engineering, Imperial University of Tokyo.        |
| Geol. Mag.                            | Geological Magazine.   | J. Coll. Sci. Tokyo .              | Journal of the College of Science, Imperial University of Tokyo.            |
| Georgia Agric. Exp. Sta. Bull.        | Georgia Agricultural Experiment Station Bulletin.  | J. Counc. Sci. Ind. Res. Australia | Journal of the Council of Scientific and Industrial Research of Australia.  |
| Giorn. Chim. Ind. Appl.               | Giornale di Chimica Industriale ed Applicata (now merged with L'Industria Chimica under the title La Chimica e l'Industria). | J. Dairy Res. .                    | Journal of Dairy Research.  |
| Gummi-Ztg. .                          | Gummi-Zeitung.   | J. Dairy Sci. .                    | Journal of Dairy Science.   |
| Hawaii Agric. Exp. Stat. Bull.        | Hawaii Agricultural Experiment Station Bulletins.  | J. Dept. Agric. S. Australia       | Journal of the Department of Agriculture, South Australia.                  |
| Helv. Chim. Acta                      | Helvetica Chimica Acta.  | J. Dept. Agric. Victoria .         | Journal of the Department of Agriculture, Victoria.                         |
| Hilgardia                             | Hilgardia.   | J. Dept. Agric. W. Australia       | Journal of the Department of Agriculture, Western Australia.                |
| Imp. Bur. Soil Sci. Tech. Comm.       | Imperial Bureau of Soil Science, Technical Communication.  | J. Econ. Entomol.                  | Journal of Economic Entomology.   |
| Indian J. Agric. Sci.                 | Indian Journal of Agricultural Science.  | J. Egypt. Med. Assoc.              | Journal of the Egyptian Medical Association.                                |
| Indian J. Med. Res. .                 | Indian Journal of Medical Research.  | J. Exp. Med. .                     | Journal of Experimental Medicine.   |
| Indian J. Physics                     | Indian Journal of Physics.   | J. Franklin Inst.                  | Journal of the Franklin Institute.  |
| Indian Lac Res. Inst. Bull.           | Indian Lac Research Institute Bulletin.  | J. Fuel Soc. Japan .               | Journal of the Fuel Society of Japan.                                       |
| India-rubber J.                       | India-rubber Journal.  | J. Gen. Chem. Russ. .              | Journal of General Chemistry, Russia (formerly J. Russ. Phys. Chem. Soc.).  |
| Ind. Chem.                            | Industrial Chemist.  | J. Gen. Physiol.                   | Journal of General Physiology.  |
| Ind. Eng. Chem.                       | Industrial and Engineering Chemistry.  | J. Geol. .                         | Journal of Geology.   |
| Ind. Eng. Chem. (Anal.)               | Industrial and Engineering Chemistry, Analytical Edition.  | J. Geol. Soc. Tokyo .              | Chishitsugaku Zasshi (Journal of the Geological Society of Tokyo).          |
| Int. Rev. Agric.                      | International Review of Agriculture.   | J. Hygiene                         | Journal of Hygiene.   |
| Int. Sugar J. .                       | International Sugar Journal.   | J. Indian Chem. Soc.               | Journal of the Indian Chemical Society.                                     |
| Iron Steel Inst. Carnegie Schol. Mem. | Iron and Steel Institute, Carnegie Scholarship Memoirs.  |                                    |   |
| Izvestia Teplotech. Inst. (Moscow)    | Izvestia Teplotechnicheskogo Instituta (Moscow).   |                                    |   |
| J.C.S.                                | Journal of the Chemical Society.   |                                    |   |
| Jahrb. geol. Reichsanst.              | Jahrbuch der geologischen Reichsanstalt.   |                                    |   |
| Jahrb. Min.                           | Neues Jahrbuch für Mineralogie, Geologie und Paläontologie.  |                                    |   |

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|--------------------------------------|---|---|--|
| J. Indian Inst. Sci. .               | Journal of the Indian Institute of Science.                                 | J. Usines Gaz .                         | Journal des Usines à Gaz.  |
| J. Ind. Hyg.                         | Journal of Industrial Hygiene.  | J. Washington Acad. Sci. .              | Journal of the Washington Academy of Sciences.   |
| J. Inst. Brew. .                     | Journal of the Institute of Brewing.  | J. West Scotland Iron Steel Inst.       | Journal of the West of Scotland Iron and Steel Institute.                                  |
| J. Inst. Electr. Eng. .              | Journal of the Institution of Electrical Engineers.                         | Kali.                                   | Kali.  |
| J. Inst. Fuel .                      | Journal of the Institute of Fuel.   | Kautschuk.                              | Kautschuk.   |
| J. Inst. Metals .                    | Journal of the Institute of Metals.   | Keijo J. Med. .                         | Keijo Journal of Medicine.   |
| J. Inst. Petroleum Tech.             | Journal of the Institution of Petroleum Technologists.                      | K. Svenska Vet. Akad. Handl.            | Kongliga Svenska Vetenskaps Akademien Handlingar.  |
| J. Iron and Steel Inst.              | Journal of the Iron and Steel Institute.                                    | Kentucky Agric. Exp. Stat. Bull.        | Kentucky Agricultural Experimental Station, Bulletin.                                      |
| J. Jap. Ceram. Assoc.                | Journal of the Japanese Ceramic Association.                                | Koram. Rundschr.                        | Keramisch Rundschau.   |
| J. Landw.                            | Journal für Landwirtschaft.   | Kolloid-Beih.                           | Kolloid-Beihefte.  |
| J. Marine Biol. Assoc.               | Journal of the Marine Biological Association of the United Kingdom.         | Kolloid-Z.                              | Kolloid-Zeitschrift.   |
| J. Med. Res.                         | Journal of Medical Research.  | Kunststoffe                             | Kunststoffe.   |
| J. Min. Agric. .                     | Journal of the Ministry of Agriculture.                                     | Lancet                                  | The Lancet.  |
| J. New England Water Works Assoc.    | Journal of the New England Water Works Association.                         | Landw. Jahrb.                           | Landwirtschaftliche Jahrbücher.  |
| J. Nutrition                         | Journal of Nutrition.   | Landw. Versuchs-Stat.                   | Die landwirtschaftlichen Versuchsstationen.  |
| J. Oil Col. Chem. Assoc.             | Journal of the Oil and Colour Chemists' Association.                        | Latvij. Univ. Raksti .                  | Latvijas Universitātes Raksti, Kimijas Fakultātes Serija.                                  |
| J. Opt. Soc. Amer. .                 | Journal of the Optical Society of America.                                  | L'Ind. Chimica                          | L'Industria Chimica (now merged with Giorn. Chim. Ind. Appl. as La Chimica e l'Industria). |
| J. Path. Bact. .                     | Journal of Pathology and Bacteriology.                                      | Louisiana Planter                       | Louisiana Planter.   |
| J. Pharm. Chim.                      | Journal de Pharmacie et de Chimie.  | Malay. Agric. J.                        | Malayan Agricultural Journal.  |
| J. Pharm. Exp. Ther.                 | Journal of Pharmacology and Experimental Therapeutics.                      | Mass. Agric. Exp. Sta. Bull.            | Massachusetts Agricultural Experiment Station Bulletin.                                    |
| J. Pharm. Soc. Japan                 | Journal of the Pharmaceutical Society of Japan. (Yakugakuzasshi.)           | Medd. K. Vetenskaps-akad. Nobel-Inst.   | Meddelanden från Kongl. Vetenskaps-akademien Nobel-Institut.                               |
| J. Physical Chem.                    | Journal of Physical Chemistry.  | Medd. on Gronland .                     | Meddelser on Gronland.   |
| J. Physiol.                          | Journal of Physiology.  | Med. Genees. Lab. Weltevreden           | Mededeelingen uit het Geneeskundig Laboratorium te Weltevreden.                            |
| J. Physiol. Path. gén.               | Journal de Physiologie et de Pathologie générale.                           | Med. Doświad.                           | Medycyna Doświadczalna i Społeczna.  |
| J. Phys. Radium                      | Journal de Physique et le Radium.   | Melliand Text. Month.                   | Melliand Textile Monthly (now Rayon and Melliand Textile Monthly).                         |
| J. Pomology                          | Journal of Pomology and Horticultural Science.                              | Mem. Accad. Lincei                      | Memorie della Reale Accademia Nazionale dei Lincei.  |
| J. pr. Chem.                         | Journal für praktische Chemie.  | Mem. Accad. Sci. Torino                 | Memorie della Reale Accademia delle Scienze di Torino.                                     |
| J. Proc. Asiatic Soc. Bengal .       | Journal and Proceedings of the Asiatic Society of Bengal.                   | Mem. Coll. Agric. Kyoto                 | Memoirs of the College of Agriculture, Kyoto Imperial University.                          |
| J. Proc. Austral. Chem. Inst. .      | Journal and Proceedings of the Australian Chemical Institute.               | Mem. Coll. Sci. Kyoto                   | Memoirs of the College of Science, Kyoto Imperial University.                              |
| J. Proc. Roy. Soc. New South Wales . | Journal and Proceedings of the Royal Society of New South Wales.            | Mem. Dept. Agric. India                 | Memoirs of the Department of Agriculture in India.   |
| J. Res. Assoc. Brit. Rubber Manufs.  | Journal of the Research Association of British Rubber Manufacturers.        | Mem. Inst. Chem. All-Ukrain. Acad. Sci. | Memoirs of the Institute of Chemistry, All-Ukrainian Academy of Sciences.                  |
| J. Res. Nat. Bur. Stand. .           | Journal of Research of the National Bureau of Standards.                    | Mem. Manchester Phil. Soc.              | Memoirs and Proceedings of the Manchester Literary and Philosophical Society.              |
| J. Rheology                          | Journal of Rheology.  | Mém. Poudres .                          | Memorial des Poudres.  |
| J. Roy. Agric. Soc. .                | Journal of the Royal Agricultural Society.                                  | Mem. Soc. Ing. Civ. France              | Mémoires et Compte rendu des Travaux de la Société des Ingénieurs Civils de France.        |
| J. Roy. Hort. Soc. .                 | Journal of the Royal Horticultural Society.                                 | Metall u. Erz .                         | Metall und Erz.  |
| J. Roy. Microscop. Soc.              | Journal of the Royal Microscopical Society.                                 | Metallurgia                             | Metallurgia.   |
| J. Roy. Soc. West Australia          | Journal of the Royal Society of West Australia.                             | Met. & Alloys .                         | Metals and Alloys.   |
| J. Roy. Tech. Coll. .                | Journal of the Royal Technical College (Glasgow).                           | Metrop. Water Bd. Rep.                  | Metropolitan Water Board Reports.  |
| J. Rubber Res. Inst. Malaya          | Journal of the Rubber Research Institute of Malaya.                         | Mich. Agric. Exp. Sta. Bull.            | Michigan Agricultural Experiment Station Bulletin.   |
| J. Sci. Hiroshima Univ.              | Journal of Science of the Hiroshima University.                             | Mikrochem.                              | Mikrochemie.   |
| J. Sci. Instr.                       | Journal of Scientific Instruments.  | Milch. Forsch. .                        | Milchwirtschaftliches Forschungen.   |
| J. Scot. Met. Soc.                   | Journal of the Scottish Meteorological Society.                             | Milch. Zentr. .                         | Milchwirtschaftliches Zentralblatt.  |
| J. Soc. Arts                         | Journal of the Royal Society of Arts.                                       | Min. Mag.                               | Mineralogical Magazine and Journal of the Mineralogical Society.                           |
| J.S.C.I. .                           | Journal of the Society of Chemical Industry.                                | Min. & Met.                             | Mining and Metallurgy.   |
| J. Soc. Chem. Ind. Japan             | Journal of the Society of Chemical Industry, Japan. (Kōgyō Kwagaku Zasshi.) | Missouri Agric. Exp. Sta. Res. Bull.    | Missouri Agricultural Experiment Station Research Bulletin.                                |
| J. Soc. Dyers and Col.               | Journal of the Society of Dyers and Colourists.                             | Mitt. Kohlenforschungsinst. Prag        | Mitteilungen des Kohlenforschungsinstituts in Prag.  |
| J. Soc. Glass Tech. .                | Journal of the Society of Glass Technology.                                 | Mitt. Lebensm. Hyg.                     | Mitteilungen aus dem Gebiete der Lebensmitteluntersuchungen und Hygiene.                   |
| J. Soc. Leather Trades' Chem.        | Journal of the International Society of Leather Trades' Chemists.           | Mitt. Materialprüf. .                   | Mitteilungen aus dem Materialprüfungsamt zu Gross-Lichterfelde West.                       |
| J. S. African Chem. Inst.            | Journal of the South African Chemical Institute.                            | Mitt. med. Ges. Tokyo                   | Mitteilungen der medizinischen Gesellschaft zu Tokyo.                                      |
| J. State Med. .                      | Journal of State Medicine.  |   |  |
| J. Textile Inst..                    | Journal of the Textile Institute.   |   |  |
| J. Univ. Bombay                      | Journal of the University of Bombay.  |   |  |

| ABBREVIATED TITLE.                       | JOURNAL.  | ABBREVIATED TITLE.                     | JOURNAL.  |
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| Mitt. Naturforsch. Ges. Halle            | Mitteilungen der Naturforschenden Gesellschaft zu Halle.                                    | Physica                                | Physica.  |
| Mitt. Path. Inst. K. Umv. Japan          | Mitteilungen aus dem pathologischen Institut der Kaiserlichen Universität zu Sendai, Japan. | Physical Rev.                          | Physical Review.  |
| Mitt. Textilforsch. Krefeld              | Mitteilungen der Textilforschungsanstalt Krefeld e.V.                                       | Physikal. Z.                           | Physikalische Zeitschrift.  |
| Monatsh.                                 | Monatshefte für Chemie und verwandte Teile anderer Wissenschaften.                          | Phytopath.                             | Phytopathology.   |
| Montana Agric. Exp. Sta. Bull.           | Montana Agricultural Experiment Station Bulletin.   | Phytopath. Z.                          | Phytopathologische Zeitschrift.   |
| Month. J. Inst. Metals                   | Monthly Journal of the Institute of Metals.   | Plant Physiol.                         | Plant Physiology.   |
| Month. Not. Roy. Astr. Soc.              | Monthly Notices of the Royal Astronomical Society, London.                                  | Planta (Z. wiss. Biol.)                | Planta (Zeitschrift für wissenschaftliche Biologie).  |
| Mühlenlab.                               | Das Mühlenlaboratorium.   | Plast. Massi                           | Plastische Massi.   |
| Munch. med. Woch. .                      | Münchener medizinische Wochenschrift.   | Poultry Sci.                           | Poultry Science.  |
| Nachr. Ges. Wiss. Göttingen              | Nachrichten von der Gesellschaft der Wissenschaften zu Göttingen.                           | Proc. Amer. Acad. Arts Sci.            | Proceedings of the American Academy of Arts and Sciences.   |
| Nat. Paint Var. Assoc. Circ.             | National Paint, Varnish, and Lacquer Association Circular.                                  | Proc. Amer. Phil. Soc.                 | Proceedings of the American Philosophical Society.  |
| Nature                                   | Nature.   | Proc. Amer. Physiol. Soc.              | Proceedings of the American Physiological Society.  |
| Natuurwetensch. Tijds.                   | Natuurwetenschappelijk Tijdschrift.   | Proc. Amer. Soc. Biol. Chem.           | Proceedings of the American Society of Biological Chemists.   |
| Naturwiss.                               | Die Naturwissenschaften.  | Proc. Amer. Soc. Civ. Eng.             | Proceedings of the American Society of Civil Engineers.   |
| New Hamps. Agric. Exp. Sta. Bull.        | New Hampshire Agricultural Experiment Station Bulletin.                                     | Proc. Amer. Soc. Testing Materials .   | Proceedings of the American Society for Testing Materials.  |
| New Jersey Agric. Exp. Sta. Bull.        | New Jersey Agricultural Experiment Station Bulletin.  | Proc. Austral. Inst. Min. Met.         | Proceedings of the Australasian Institute of Mining and Metallurgy.                                 |
| New Phytol.                              | New Phytologist.  | Proc. Camb. Phil. Soc.                 | Proceedings of the Cambridge Philosophical Society.   |
| New York Agr. Expt. Sta. Bull.           | New York Agricultural Experiment Station Bulletins.   | Proc. Durham Phil. Soc.                | Proceedings of the University of Durham Philosophical Society.                                      |
| New York (Geneva) Agric. Exp. Sta. Bull. | New York (Geneva) Agricultural Experiment Station Bulletin.                                 | Proc. Eng. Soc. W. Pa.                 | Proceedings of the Engineers' Society of Western Pennsylvania.                                      |
| New Zealand Dominion Laby. Rept.         | New Zealand Dominion Laboratory Reports.  | Proc. Imp. Acad. Tokyo                 | Proceedings of the Imperial Academy (Tokyo).  |
| New Zealand J. Sci. Tech. .              | New Zealand Journal of Science and Technology.  | Proc. Indian Acad. Sci.                | Proceedings of the Indian Academy of Sciences.  |
| Nova Acta Soc. Sci. .                    | Nova Acta Regiae Societatis Scientiarum Upsaliensis.  | Proc. Inst. Civ. Eng. .                | Proceedings of the Institution of Civil Engineers.  |
| Nutr. Abs.                               | Nutrition Abstracts and Reviews.  | Proc. Inst. Mech. Eng.                 | Proceedings of the Institution of Mechanical Engineers.   |
| Öfvers. Finska Vet.-Soc.                 | Öfversigt af Finska Vetenskaps-Societétens Förhandlingar, Helsingfors.                      | Proc. Internat. Cong. Soil Sci.        | Proceedings of the International Congress of Soil Science.  |
| Oesterr. Chem.-Ztg. .                    | Oesterreichische Chemiker-Zeitung.  | Proc. Internat. Soc. Soil Sci.         | Proceedings of the International Society of Soil Science.   |
| Off. Digest.                             | Official Digest of the Federation of Paint and Varnish Production Clubs.                    | Proc. K. Akad. Wetensch. Amsterdam     | Koninklijke Akademie van Wetenschappen te Amsterdam. Proceedings (English version).                 |
| Ohio Agric. Exp. Sta. Bull.              | Ohio Agricultural Experiment Station Bulletin.  | Proc. Leningrad Dept. Inst. Fert.      | Proceedings of the Leningrad Departmental Institute of Fertilisers.                                 |
| Oil and Soap .                           | Oil and Soap.   | Proc. Muslim Assoc. .                  | Proceedings of the Muslim Association for the Advancement of Science.                               |
| Oklahoma Agric. Exp. Sta. Bull.          | Oklahoma Agricultural Experiment Station Bulletin.  | Proc. Nat. Acad. Sci. .                | Proceedings of the National Academy of Sciences.  |
| Oversigt Danske Vid. Selsk.              | Oversigt over det Kongelige Danske Videnskabernes Selskabs Forhandlingar.                   | Proc. Nova Scotian Inst. Sci.          | Proceedings of the Nova Scotian Institute of Science.   |
| Paint, Oil, and Chem. Rev.               | Paint, Oil, and Chemical Review.  | Proc. Phil. Soc. Glasgow               | Proceedings of the Glasgow Philosophical Society.   |
| Paint and Var. Prod. Man.                | Paint and Varnish Production Manager.   | Proc. Physical Soc. .                  | Proceedings of the Physical Society of London.  |
| Paper                                    | Paper.  | Proc. Physiol. Soc. .                  | Proceedings of the Physiological Society.   |
| Paper-Maker .                            | Paper-Maker and British Paper Trade Journal.  | Proc. Roy. Inst.                       | Proceedings of the Royal Institution of Great Britain.  |
| Paper Trade J.                           | Paper Trade Journal.  | Proc. Roy. Irish Acad.                 | Proceedings of the Royal Irish Academy.   |
| Papier-Fabr.                             | Papier-Fabrikant.   | Proc. Roy. Soc.                        | Proceedings of the Royal Society.   |
| Pedology                                 | Pedology.   | Proc. Roy. Soc. Edin.                  | Proceedings of the Royal Society of Edinburgh.  |
| Peint., Pig., Ver.                       | Peinture, Pigment, Vernis.  | Proc. Roy. Soc. Med. .                 | Proceedings of the Royal Society of Medicine.   |
| Perf. & Essent. Oil Rec.                 | Perfumery and Essential Oil Record.   | Proc. Roy. Soc. .                      | Proceedings of the Royal Society of Queensland.   |
| Petroleum                                | Petroleum (German).   | Proc. Roy. Soc. Tasmania               | Proceedings of the Royal Society of Tasmania.   |
| Pflüger's Archiv                         | Archiv für die gesamte Physiologie des Menschen und der Tiere.                              | Proc. Sci. Assoc., Vizianagram         | Proceedings of the Science Association, Maharajah's College, Vizianagram.                           |
| Pharm. J.                                | Pharmaceutical Journal.   | Proc. Soc. Exp. Biol. Med.             | Proceedings of the Society for Experimental Biology and Medicine.                                   |
| Pharm. Weekblad                          | Pharmaceutisch Weekblad.  | Proc. S. Wales Inst. Eng.              | Proceedings of the South Wales Institute of Engineers.  |
| Pharm. Ztg.                              | Pharmazeutische Zeitung.  | Proc. Tech. Sect. Paper Makers' Assoc. | Proceedings of the Technical Section of the Paper Makers' Association of Great Britain and Ireland. |
| Pharm. Zentr. .                          | Pharmazeutische Zentralhalle.   |  |   |
| Philippine J. Sci.                       | Philippine Journal of Science.  |  |   |
| Phil. Mag.                               | Philosophical Magazine (The London, Edinburgh, and Dublin).                                 |  |   |
| Phil. Trans.                             | Philosophical Transactions of the Royal Society of London.                                  |  |   |
| Phot. J. .                               | Photographic Journal.   |  |   |
| Phot. Korr.                              | Photographische Korrespondenz.  |  |   |

| ABBREVIATED TITLE.                       | JOURNAL.  |
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| Proc. U.S. Nat. Mus. .                   | Proceedings of the United States National Museum.   |
| Przemysl Chem.                           | Przemysł Chemiczny.   |
| Publ. Fac. Sci. Univ. Masaryk.           | Publications de la Faculté des Sciences de l'Université Masaryk (Spisy vydavané Přírodovědeckou Fakoultou Masarykovy University). |
| Pulp and Paper Canada.                   | Pulp and Paper of Canada.   |
| Quart. J. Geol. Soc. .                   | Quarterly Journal of the Geological Society.  |
| Quart. J. Med.                           | Quarterly Journal of Medicine.  |
| Quart. J. Pharm.                         | Quarterly Journal of Pharmacy and Pharmacology.   |
| Queensland J. Agric..                    | Queensland Journal of Agriculture.  |
| Rayon and Melland Text. Month.           | Rayon and Melland Textile Monthly.  |
| Rec. Australian Mus.                     | Records of the Australian Museum.   |
| Rec. trav. bot. Néerland.                | Recueil des travaux botaniques Néerlandais.   |
| Rec. trav. chim.                         | Recueil des travaux chimiques des Pays-Bas.   |
| Rend. Accad. Sci. Fis. Mat. Napoli.      | Rendiconto dell' Accademia delle Scienze Fisiche e Matematiche, Napoli.   |
| Rend. Ist. Lomb. Sci. Lett.              | Rendiconto dell' Reale Istituto Lombardo di Scienze e Lettere.  |
| Rensselaer Polyt. Inst. Bull.            | Rensselaer Polytechnic Institute Bulletin.  |
| Rep. Aust. Assoc. Sci.                   | Report of the Australian Association for the Advancement of Science.  |
| Rep. Brit. Assoc.                        | Report of the British Association for the Advancement of Science.   |
| Rev. Aluminium                           | Revue de l'Aluminium.   |
| Rev. Gén. Mat. Col. .                    | Revue Générale des Matières Colorantes.   |
| Rev. Mét.                                | Revue de Métallurgie.   |
| Rev. Sci. Instr.                         | Review of Scientific Instruments.   |
| Rocz. Chem. .                            | Roczniki Chemji organ Polskiego Towarzystwa Chemicznego.  |
| Schweiz. Chem.-Ztg. .                    | Schweizerische Chemiker-Zeitung.  |
| Sci. Agric.                              | Scientific Agriculture.   |
| Sci. Ind. Rep. Roure-Bertrand Fils       | Scientific and Industrial Reports of Roure-Bertrand Fils.   |
| Sci. Mem. Univ. Saratov                  | Scientific Memoirs of the University of Saratov.  |
| Sci. Papers Inst. Phys. Chem. Res. Tokyo | Scientific Papers of the Institute of Physical and Chemical Research, Tokyo.  |
| Sci. Proc. Roy. Dublin Soc.              | Scientific Proceedings of the Royal Dublin Society.   |
| Sci. Quart. Nat. Univ. Peking            | Science Quarterly of the National University of Peking.   |
| Sci. Rep. Hiroshima Tech. Sch. .         | Scientific Reports of the Hiroshima Higher Technical School.  |
| Sci. Rep. Tôhoku                         | Science Reports, Tôhoku Imperial University.  |
| Sci. Rep. Tokyo Bunrika Daigaku.         | Science Reports of the Tokyo Bunrika Daigaku.   |
| Sci. Rep. Tsing Hua Univ. .              | Science Reports of the National Tsing Hua University.   |
| Sci. Trans. Roy. Dubl. Soc.              | Scientific Transactions of the Royal Dublin Society.  |
| Scot. J. Agric. .                        | Scottish Journal of Agriculture.  |
| Sewage Works' J.                         | Sewage Works' Journal.  |
| Sitzungsber. Akad. Wiss. Wien            | Sitzungsberichte der Akademie der Wissenschaften, Wien.   |
| Sitzungsber. Heidelberger Akad. Wiss.    | Sitzungsberichte der Heidelberger Akademie der Wissenschaften.  |
| Sitzungsber. Preuss. Akad. Wiss. Berlin  | Sitzungsberichte der Preussischen Akademie der Wissenschaften zu Berlin.  |
| Smithsonian Misc. Coll.                  | Smithsonian Miscellaneous Collection.   |
| Soap .                                   | Soap.   |
| Soil Res. .                              | Soil Research.  |
| Soil Sci. .                              | Soil Science.   |
| Sprechsaal .                             | Sprechsaal.   |
| Stahl u. Eisen .                         | Stahl und Eisen.  |
| Stain Tech. .                            | Stain Technology.   |

| ABBREVIATED TITLE.                                      | JOURNAL.   |
|---|--|
| Staz. sper. agr. ital. .                                | Stazioni sperimentali agrarie italiane.  |
| Sugar Bull.   | Sugar Bulletin.  |
| Suomen Kem. .   | Suomen Kemistilehti Acta Chemica Fennica.  |
| Superphosphat .   | Superphosphat.   |
| Superphosphate  | Superphosphate.  |
| Svensk Kem. Tidskr.                                     | Svensk Kemisk Tidskrift.   |
| Synth. Appl. Fin.                                       | Synthetic and Applied Finishes.  |
| Tasmanian Agric. J. .                                   | Tasmanian Agricultural Journal.  |
| Tech. Rep. Tôhoku .                                     | Technology Reports of the Tôhoku Imperial University, Sendai, Japan.                       |
| Tekn. Tidsk.  | Teknisk Tidskrift.   |
| Textilber.  | Melliand's Textilberichte uber Wissenschaft, Industrie und Handel.                         |
| Tids. Kjemi.  | Tidsskrift for Kjemi og Bergvesen.   |
| Tonind.-Ztg.  | Tonindustrie-Zeitung.  |
| Trans. Amer. Inst. Chem. Eng.                           | Transactions of the American Institute of Chemical Engineers.                              |
| Trans. Amer. Inst. Metals                               | Transactions of the American Institution of Metals.  |
| Trans. Amer. Inst. Min. Met. Eng.                       | Transactions of the American Institute of Mining and Metallurgical Engineers.              |
| Trans. Ceram. Soc. .                                    | Transactions of the Ceramic Society.   |
| Trans. Dokuchaiev Soil Inst.                            | Transactions of the Dokuchaiev Soil Institute.   |
| Trans. Electrochem. Soc.                                | Transactions of the Electrochemical Society.   |
| Trans. Faraday Soc. .                                   | Transactions of the Faraday Society.   |
| Trans. Inst. Min. Eng.                                  | Transactions of the Institution of Mining Engineers.                                       |
| Trans. Inst. Min. Met.                                  | Transactions of the Institution of Mining and Metallurgy.                                  |
| Trans. Inst. Rubber Ind.                                | Transactions of the Institution of the Rubber Industry.                                    |
| Trans. N. Eng. Inst. Min. Mech. Eng.                    | Transactions of the North of England Institute of Mining and Mechanical Engineers.         |
| Trans. New Zealand Inst.                                | Transactions of the New Zealand Institute.   |
| Trans. Nova Scotia Inst. Sci.                           | Transactions of the Nova Scotia Institute of Science.                                      |
| Trans. Opt. Soc.  | Transactions of the Optical Society.   |
| Trans. Roy. Irish Acad.                                 | Transactions of the Royal Irish Academy.   |
| Trans. Roy. Soc. Canada                                 | Transactions of the Royal Society of Canada.   |
| Trans. Roy. Soc. Edin.                                  | Transactions of the Royal Society of Edinburgh.  |
| Trans. Roy. Soc. S. Africa.                             | Transactions of the Royal Society of South Africa.   |
| Trop. Agric.  | Tropical Agriculturist (Ceylon).   |
| Trop. Agric. (Trinidad)                                 | Tropical Agriculture (Trinidad)  |
| Tsch. Min. Mitt.  | Tschermak's Mineralogische Mitteilungen.   |
| U.S. Bur. Mines, Bull., Tech. Papers, and Rept. Invest. | United States Bureau of Mines, Bulletins, Technical Papers, and Reports of Investigations. |
| U.S. Bur. Plant Ind.                                    | United States Bureau of Plant Industry.  |
| U.S. Dept. Agric. Bull. (or Circ.)                      | United States Department of Agriculture Bulletins (or Circulars).                          |
| U.S. Hyg. Labor. Bull.                                  | United States Hygienic Laboratory Bulletins.   |
| U.S.P. .  | United States Patent.  |
| Ukrain. Chem. J.  | Ukrainian Chemical Journal.  |
| Univ. Illinois Bull. .                                  | University of Illinois Bulletins.  |
| Utah Agric. Coll. Exp. Stat. Bull.                      | Utah Agricultural College Experiment Station Bulletins.                                    |
| Verfkroniek   | Verfkroniek.   |
| Verh. Geol. Reichsanst. Wien                            | Verhandlungen der Geologischen Reichsanstalt in Wien.                                      |
| Verh. Ges. deut. Naturforsch. Aertze                    | Verhandlungen der Gesellschaft deutscher Naturforscher und Aertze.                         |
| Vermont Agric. Exp. Sta. Bull.                          | Vermont Agricultural Experiment Station Bulletin.  |
| Vet. Rec..  | Veterinary Record.   |
| Virginia (Blacksburg) Exp. Sta. Bull.                   | Virginia (Blacksburg) Experiment Station Bulletin.   |
| Virginia Truck Exp. Sta. Bull.                          | Virginia Truck Experiment Station Bulletin.  |
| Welsh J. Agric.   | Welsh Journal of Agriculture.  |

| ABBREVIATED TITLE.                | JOURNAL.   | ABBREVIATED TITLE.            | JOURNAL.   |
|-----------------------------------|--|-------------------------------|--|
| Wiss. Veröff. Siemens-Konz.       | Wissenschaftliche Veröffentlichungen aus dem Siemens-Konzern.                | Z. physikal. chem. Unterr.    | Zeitschrift für den physikalischen und chemischen Unterricht.                                |
| Woch. Brau.                       | Wochenschrift für Brauerei.  | Z. physiol. Chem.             | Hoppe-Seyler's Zeitschrift für physiologische Chemie.  |
| Z. anal. Chem. .                  | Zeitschrift für analytische Chemie.  | Z. prakt. Geol.               | Zeitschrift für praktische Geologie.   |
| Z. anorg. Chem.                   | Zeitschrift für anorganische und allgemeine Chemie.                          | Z. Sauerstoff Stickstoff Ind. | Zeitschrift für Sauerstoff und Stickstoff Industrie.   |
| Z. Biol. .                        | Zeitschrift für Biologie.  | Z. Spiritusind. .             | Zeitschrift für Spiritusindustrie.   |
| Z. deut. bot. Ges.                | Zeitschrift der deutschen botanischen Gesellschaft.                          | Z. Unters. Lebensm..          | Zeitschrift für Untersuchung der Lebensmittel.   |
| Z. deut. Geol. Ges. .             | Zeitschrift der deutschen Geologischen Gesellschaft.                         | Z. Ver. deut. Zucker-Ind.     | Zeitschrift des Vereins der deutschen Zucker-Industrie (now changed to Z. Wirts. Zuckerund). |
| Z. Elektrochem.                   | Zeitschrift für Elektrochemie.   | Z. Vitaminforsch.             | Zeitschrift für Vitaminforschung.  |
| Z. exp. Path. Ther. .             | Zeitschrift für experimentelle Pathologie und Therapie.                      | Z. Wirts. Zuckerind.          | Zeitschrift der Wirtschaftsgruppe Zuckerindustrie (Verein der Deutschen Zucker-Industrie).   |
| Z. ges. Brauw. .                  | Zeitschrift für das gesamte Brauwesen.                                       | Z. wiss. Biol. .              | Zeitschrift für wissenschaftliche Biologie.  |
| Z. ges. exp. Med.                 | Zeitschrift für die gesamte experimentelle Medizin.                          | Z. wiss. Mikrosk.             | Zeitschrift für wissenschaftliche Mikroskopie und mikroskopische Technik.                    |
| Z. ges. Schiess- u. Sprengstoffw. | Zeitschrift für das gesamte Schiess- und Sprengstoffwesen.                   | Z. wiss. Phot. .              | Zeitschrift für wissenschaftliche Photographie, Photophysik und Photochemie.                 |
| Z. Hyg. .                         | Zeitschrift für Hygiene und Infektionskrankheiten.                           | Z. Zuckerind. Czecho-slov.    | Zeitschrift für die Zuckerindustrie der Tschechoslovakischen Republik.                       |
| Z. Instrument.                    | Zeitschrift für Instrumentenkunde.   | Zavod. Lab.                   | Zavodskaja Laboratorija.   |
| Z. Krist. .                       | Zeitschrift für Kristallographie.  | Zellstoff u. Papier           | Zellstoff und Papier.  |
| Z. Metallk.                       | Zeitschrift für Metallkunde.   | Zentr. Bakt.                  | Zentralblatt für Bakteriologie, Parasitenkunde und Infektionskrankheiten.                    |
| Z. Parasitenk. .                  | Zeitschrift für Parasitenkunde.  | Zentr. Min.                   | Zentralblatt für Mineralogie, Geologie und Paläontologie.                                    |
| Z. Pflanz. Düng.                  | Zeitschrift für Pflanzenernährung, Düngung, und Bodenkunde.                  | Zentr. Zuckerind.             | Zentralblatt für Zuckerindustrie.  |
| Z. Pflanzenkr. Pflanzenschutz     | Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz. |                               |  |
| Z. Physik                         | Zeitschrift für Physik.  |                               |  |
| Z. physikal. Chem. .              | Zeitschrift für physikalische Chemie.  |                               |  |



## List of Patents Abstracted.

## BRITISH PATENTS.

|     | Page.<br>B. | No. of<br>Patent. | Page.<br>B. | No. of<br>Patent. | Page.<br>B. | No. of<br>Patent. | Page.<br>B. | No. of<br>Patent. | Page.<br>B. | No. of<br>Patent. | Page.<br>B. | No. of<br>Patent. | Page.<br>B. | No. of<br>Patent. | Page.<br>B. | No. of<br>Patent. |
|-----|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|
| 590 |             | 400,401           | 44          | 400,991           | 31          | 401,512           | 48          | 402,071           | 109         | 402,619           | 302         |                   |             |                   |             | 190               |
| 004 |             | 400,409           | 8           | 400,996           | 13          | 401,514           | 107         | 402,075           | 81          | 402,621           | 123         |                   |             |                   |             | 317               |
| 104 |             | 400,413           | 10          | 400,997           | 26          | 401,519           | 115         | 402,078           | 145         | 402,622           | 141         |                   |             |                   |             | 204               |
| 104 |             | 400,415           | 140         | 400,998           | 145         | 401,520           | 115         | 402,082           | 123         | 402,633           | 97          |                   |             |                   |             | 318               |
| 097 |             | 400,424           | 25          | 401,008           | 66          | 401,522           | 98          | 402,094           | 236         | 402,640           | 153         |                   |             |                   |             | 205               |
| 105 |             | 400,431           | 96          | 401,018           | 69          | 401,525           | 191         | 402,100           | 80          | 402,651           | 108         |                   |             |                   |             | 205               |
| 101 |             | 400,439           | 99          | 401,021           | 20          | 401,527           | 66          | 402,101           | 98          | 402,677           | 99          |                   |             |                   |             | 264               |
| 105 |             | 400,441           | 3           | 401,022           | 68          | 401,531           | 182         | 402,104           | 91          | 402,692           | 90          |                   |             |                   |             | 213               |
| 96  |             | 400,446           | 3           | 401,038           | 144         | 401,534           | 92          | 402,105           | 91          | 402,693           | 177         |                   |             |                   |             | 213               |
| 99  |             | 400,452           | 10          | 401,094           | 86          | 401,535           | 71          | 402,106           | 91          | 402,712           | 127         |                   |             |                   |             | 224               |
| 98  |             | 400,489           | 139         | 401,095           | 26          | 401,544           | 138         | 402,107           | 180         | 402,749           | 266         |                   |             |                   |             | 223               |
| 192 |             | 400,490           | 25          | 401,115           | 47          | 401,548           | 221         | 402,117           | 107         | 402,751           | 263         |                   |             |                   |             | 283               |
| 102 |             | 400,496           | 2           | 401,118           | 53          | 401,550           | 208         | 402,118           | 103         | 402,752           | 206         |                   |             |                   |             | 206               |
| 103 |             | 400,499           | 25          | 401,117           | 53          | 401,554           | 60          | 402,120           | 111         | 402,759           | 209         |                   |             |                   |             | 381               |
| 95  |             | 400,520           | 43          | 401,118           | 54          | 401,555           | 77          | 402,139           | 180         | 402,762           | 301         |                   |             |                   |             | 221               |
| 95  |             | 400,524           | 24          | 401,120           | 53          | 401,562           | 86          | 402,140           | 110         | 402,769           | 205         |                   |             |                   |             | 314               |
| 104 |             | 400,580           | 9           | 401,121           | 143         | 401,566           | 107         | 402,141           | 91          | 402,770           | 237         |                   |             |                   |             | 211               |
| 102 |             | 400,586           | 66          | 401,131           | 52          | 401,567           | 94          | 402,143           | 91          | 402,776           | 189         |                   |             |                   |             | 262               |
| 105 |             | 400,587           | 20          | 401,132           | 55          | 401,574           | 123         | 402,144           | 91          | 402,777           | 320         |                   |             |                   |             | 167               |
| 105 |             | 400,589           | 14          | 401,137           | 55          | 401,576           | 100         | 402,159           | 186         | 402,784           | 189         |                   |             |                   |             | 318               |
| 105 |             | 400,592           | 4           | 401,138           | 39          | 401,583           | 48          | 402,160           | 97          | 402,788           | 266         |                   |             |                   |             | 193               |
| 104 |             | 400,593           | 66          | 401,142           | 54          | 401,588           | 104         | 402,184           | 187         | 402,791           | 206         |                   |             |                   |             | 225               |
| 103 |             | 400,597           | 14          | 401,149           | 14          | 401,589           | 174         | 402,187           | 98          | 402,796           | 204         |                   |             |                   |             | 317               |
| 103 |             | 400,604           | 51          | 401,160           | 13          | 401,603           | 115         | 402,188           | 120         | 402,807           | 189         |                   |             |                   |             | 817               |
| 284 |             | 400,607           | 25          | 401,199           | 191         | 401,604           | 48          | 402,203           | 97          | 402,810           | 197         |                   |             |                   |             | 221               |
| 97  |             | 400,613           | 26          | 401,200           | 29          | 401,612           | 60          | 402,229           | 143         | 402,824           | 128         |                   |             |                   |             | 220               |
| 94  |             | 400,627           | 29          | 401,205           | 43          | 401,610           | 66          | 402,231           | 123         | 402,832           | 216         |                   |             |                   |             | 205               |
| 95  |             | 400,628           | 52          | 401,207           | 45          | 401,627           | 60          | 402,244           | 80          | 402,845           | 197         |                   |             |                   |             | 143               |
| 98  |             | 400,631           | 13          | 401,210           | 53          | 401,650           | 102         | 402,253           | 184         | 402,846           | 262         |                   |             |                   |             | 190               |
| 96  |             | 400,633           | 21          | 401,217           | 67          | 401,652           | 91          | 402,254           | 104         | 402,848           | 380         |                   |             |                   |             | 190               |
| 9   |             | 400,643           | 15          | 401,227           | 115         | 401,653           | 158         | 402,255           | 590         | 402,849           | 268         |                   |             |                   |             | 223               |
| 8   |             | 400,644           | 51          | 401,229           | 60          | 401,665           | 142         | 402,262           | 184         | 402,853           | 202         |                   |             |                   |             | 226               |
| 101 |             | 400,658           | 2           | 401,235           | 143         | 401,672           | 105         | 402,264           | 184         | 402,854           | 128         |                   |             |                   |             | 220               |
| 8   |             | 400,662           | 13          | 401,237           | 54          | 401,678           | 136         | 402,265           | 187         | 402,855           | 210         |                   |             |                   |             | 205               |
| 7   |             | 400,666           | 15          | 401,244           | 67          | 401,679           | 91          | 402,284           | 235         | 402,877           | 189         |                   |             |                   |             | 205               |
| 4   |             | 400,678           | 111         | 401,269           | 136         | 401,688           | 107         | 402,286           | 187         | 402,880           | 267         |                   |             |                   |             | 192               |
| 09  |             | 400,681           | 13          | 401,270           | 105         | 401,689           | 157         | 402,289           | 80          | 402,882           | 267         |                   |             |                   |             | 356               |
| 3   |             | 400,698           | 28          | 401,272           | 158         | 401,693           | 172         | 402,290           | 107         | 402,883           | 349         |                   |             |                   |             | 192               |
| 8   |             | 400,719           | 25          | 401,282           | 136         | 401,694           | 182         | 402,295           | 109         | 402,891           | 263         |                   |             |                   |             | 223               |
| 2   |             | 400,727           | 52          | 401,284           | 118         | 401,705           | 115         | 402,296           | 109         | 402,899           | 218         |                   |             |                   |             | 184               |
| 103 |             | 400,742           | 146         | 401,286           | 136         | 401,707           | 115         | 402,309           | 232         | 402,902           | 172         |                   |             |                   |             | 355               |
| 190 |             | 400,743           | 140         | 401,287           | 48          | 401,709           | 81          | 402,311           | 153         | 402,916           | 205         |                   |             |                   |             | 154               |
| 2   |             | 400,744           | 66          | 401,290           | 71          | 401,710           | 140         | 402,322           | 181         | 402,918           | 197         |                   |             |                   |             | 184               |
| 3   |             | 400,747           | 101         | 401,295           | 185         | 401,712           | 142         | 402,324           | 81          | 402,920           | 290         |                   |             |                   |             | 216               |
| 101 |             | 400,752           | 67          | 401,297           | 136         | 401,717           | 107         | 402,327           | 235         | 402,925           | 212         |                   |             |                   |             | 225               |
| 4   |             | 400,760           | 189         | 401,298           | 183         | 401,719           | 123         | 402,328           | 186         | 402,928           | 266         |                   |             |                   |             | 263               |
| 8   |             | 400,776           | 43          | 401,299           | 146         | 401,720           | 102         | 402,335           | 188         | 402,938           | 263         |                   |             |                   |             | 223               |
| 2   |             | 400,784           | 44          | 401,301           | 107         | 401,722           | 80          | 402,358           | 109         | 402,946           | 128         |                   |             |                   |             | 313               |
| 07  |             | 400,793           | 51          | 401,302           | 137         | 401,723           | 124         | 402,364           | 110         | 402,948           | 219         |                   |             |                   |             | 205               |
| 3   |             | 400,797           | 28          | 401,309           | 71          | 401,724           | 87          | 402,391           | 235         | 402,953           | 129         |                   |             |                   |             | 212               |
| 7   |             | 400,798           | 4           | 401,312           | 136         | 401,726           | 63          | 402,392           | 235         | 402,959           | 210         |                   |             |                   |             | 263               |
| 2   |             | 400,809           | 4           | 401,313           | 103         | 401,731           | 142         | 402,393           | 235         | 402,967           | 206         |                   |             |                   |             | 225               |
| 3   |             | 400,813           | 20          | 401,333           | 77          | 401,735           | 91          | 402,400           | 146         | 402,968           | 263         |                   |             |                   |             | 188               |
| 7   |             | 400,817           | 07          | 401,335           | 91          | 401,752           | 271         | 402,402           | 128         | 402,973           | 266         |                   |             |                   |             | 192               |
| 37  |             | 400,829           | 28          | 401,338           | 58          | 401,756           | 95          | 402,410           | 194         | 402,974           | 211         |                   |             |                   |             | 206               |
| 8   |             | 400,840           | 4           | 401,340           | 221         | 401,767           | 180         | 402,419           | 107         | 402,977           | 194         |                   |             |                   |             | 146               |
| 4   |             | 400,844           | 52          | 401,341           | 184         | 401,788           | 94          | 402,422           | 159         | 402,982           | 190         |                   |             |                   |             | 208               |
| 13  |             | 400,846           | 30          | 401,350           | 59          | 401,816           | 146         | 402,423           | 107         | 402,988           | 206         |                   |             |                   |             | 263               |
| 10  |             | 400,849           | 4           | 401,351           | 60          | 401,864           | 80          | 402,430           | 151         | 402,993           | 197         |                   |             |                   |             | 359               |
| 42  |             | 400,857           | 52          | 401,353           | 137         | 401,866           | 156         | 402,433           | 122         | 403,001           | 221         |                   |             |                   |             | 310               |
| 28  |             | 400,863           | 120         | 401,356           | 137         | 401,867           | 121         | 402,438           | 232         | 403,002           | 191         |                   |             |                   |             | 224               |
| 140 |             | 400,870           | 11          | 401,357           | 9           | 401,887           | 137         | 402,449           | 91          | 403,007           | 268         |                   |             |                   |             | 225               |
| 2   |             | 400,874           | 30          | 401,360           | 98          | 401,898           | 221         | 402,450           | 91          | 403,009           | 191         |                   |             |                   |             | 191               |
| 140 |             | 400,898           | 30          | 401,361           | 98          | 401,908           | 102         | 402,454           | 111         | 403,013           | 267         |                   |             |                   |             | 358               |
| 10  |             | 400,917           | 48          | 401,364           | 102         | 401,918           | 90          | 402,455           | 177         | 403,022           | 268         |                   |             |                   |             | 310               |
| 42  |             | 400,920           | 55          | 401,392           | 98          | 401,932           | 107         | 402,458           | 254         | 403,025           | 237         |                   |             |                   |             | 209               |
| 8   |             | 400,921           | 55          | 401,393           | 104         | 401,938           | 142         | 402,462           | 232         | 403,031           | 128         |                   |             |                   |             | 208               |
| 3   |             | 400,922           | 55          | 401,407           | 60          | 401,941           | 120         | 402,478           | 177         | 403,035           | 193         |                   |             |                   |             | 355               |
| 192 |             | 400,933           | 65          | 401,413           | 208         | 401,942           | 80          | 402,479           | 129         | 403,042           | 129         |                   |             |                   |             | 194               |
| 26  |             | 400,937           | 29          | 401,429           | 49          | 401,950           | 95          | 402,481           | 176         | 403,049           | 271         |                   |             |                   |             | 221               |
| 14  |             | 400,938           | 14          | 401,431           | 103         | 401,954           | 172         | 402,497           | 153         | 403,054           | 194         |                   |             |                   |             | 207               |
| 13  |             | 400,940           | 48          | 401,435           | 86          | 401,961           | 123         | 402,505           | 233         | 403,060           | 226         |                   |             |                   |             | 210               |
| 44  |             | 400,944           | 53          | 401,438           | 60          | 401,965           | 158         | 402,513           | 232         | 403,071           | 139         |                   |             |                   |             | 356               |
| 105 |             | 400,946           | 14          | 401,443           | 102         | 401,971           | 157         | 402,521           | 233         | 403,072           | 140         |                   |             |                   |             | 196               |
| 103 |             | 400,949           | 143         | 401,463           | 181         | 402,010           | 95          | 402,524           | 214         | 403,076           | 312         |                   |             |                   |             | 208               |
| 86  |             | 400,951           | 123         | 401,477           | 69          | 402,011           | 182         | 402,529           | 232         | 403,077           | 274         |                   |             |                   |             | 297               |
| 29  |             | 400,956           | 47          | 401,481           | 111         | 402,023           | 64          | 402,544           | 90          | 403,083           | 208         |                   |             |                   |             | 222               |
| 10  |             | 400,969           | 30          | 401,484           | 48          | 402,030           | 158         | 402,549           | 229         | 403,094           | 197         |                   |             |                   |             | 310               |
| 4   |             | 400,974           | 13          | 401,487           | 67          | 402,054           | 233         | 402,564           | 197         | 403,095           | 190         |                   |             |                   |             | 287               |
| 25  |             | 400,979           | 43          | 401,491           | 102         | 402,055           | 199         | 402,581           | 129         | 403,096           | 370         |                   |             |                   |             | 355               |
| 4   |             | 400,984           | 143         | 401,495           | 118         | 402,060           | 188         | 402,588           | 97          | 403,105           | 314         |                   |             |                   |             | 190               |
| 10  |             | 400,986           | 53          | 401,500           | 157         | 402,063           | 180         | 402,599           | 123         | 403,106           | 140         |                   |             |                   |             | 194               |
| 95  |             | 400,988           | 14          | 401,504           | 192         | 402,067           | 111         | 402,609           | 153         | 403,112           | 223         |                   |             |                   |             | 225               |
|     |             | 400,990           | 31          | 401,508           | 182         | 402,070           | 80          | 402,613           | 232         | 403,115           | 224         |                   |             |                   |             | 195               |



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|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|
| 213         | 404,363           | 235         | 405,027           | 278         | 405,633           | 457         | 406,272           | 420         | 408,855           | 451         | 407,509           | 447         | 407,509           | 447         | 407,509           |
| 211         | 404,364           | 208         | 405,028           | 267         | 405,642           | 340         | 406,273           | 384         | 408,862           | 462         | 407,522           | 532         | 407,522           | 532         | 407,522           |
| 356         | 404,367           | 238         | 405,032           | 400         | 405,650           | 458         | 406,280           | 395         | 408,880           | 443         | 407,531           | 411         | 407,531           | 411         | 407,531           |
| 210         | 404,370           | 235         | 405,038           | 305         | 405,658           | 311         | 406,281           | 304         | 408,914           | 446         | 407,534           | 532         | 407,534           | 532         | 407,534           |
| 207         | 404,372           | 868         | 405,039           | 342         | 405,662           | 530         | 406,283           | 400         | 408,917           | 477         | 407,540           | 509         | 407,540           | 509         | 407,540           |
| 225         | 404,381           | 232         | 405,041           | 284         | 405,669           | 451         | 406,284           | 393         | 408,919           | 433         | 407,545           | 464         | 407,545           | 464         | 407,545           |
| 241         | 404,386           | 234         | 405,047           | 302         | 405,673           | 454         | 406,286           | 384         | 408,923           | 507         | 407,551           | 441         | 407,551           | 441         | 407,551           |
| 311         | 404,409           | 225         | 405,054           | 289         | 405,675           | 342         | 406,290           | 384         | 408,957           | 451         | 407,573           | 477         | 407,573           | 477         | 407,573           |
| 193         | 404,413           | 233         | 405,090           | 270         | 405,688           | 374         | 406,294           | 420         | 408,958           | 460         | 407,578           | 446         | 407,578           | 446         | 407,578           |
| 221         | 404,422           | 310         | 405,092           | 268         | 405,689           | 330         | 406,303           | 434         | 408,963           | 489         | 407,603           | 432         | 407,603           | 432         | 407,603           |
| 304         | 404,452           | 354         | 405,099           | 290         | 405,690           | 328         | 406,310           | 394         | 408,964           | 423         | 407,609           | 506         | 407,609           | 506         | 407,609           |
| 207         | 404,492           | 352         | 405,103           | 271         | 405,691           | 317         | 406,322           | 406         | 408,979           | 454         | 407,634           | 433         | 407,634           | 433         | 407,634           |
| 355         | 404,451           | 323         | 405,111           | 367         | 405,692           | 317         | 406,324           | 413         | 408,980           | 434         | 407,638           | 465         | 407,638           | 465         | 407,638           |
| 221         | 404,463           | 307         | 405,112           | 409         | 405,695           | 334         | 406,326           | 301         | 408,985           | 398         | 407,670           | 844         | 407,670           | 844         | 407,670           |
| 357         | 404,469           | 244         | 405,116           | 299         | 405,696           | 317         | 406,337           | 358         | 408,986           | 489         | 407,673           | 405         | 407,673           | 405         | 407,673           |
| 207         | 404,471           | 305         | 405,119           | 366         | 405,699           | 313         | 406,338           | 371         | 408,988           | 460         | 407,674           | 463         | 407,674           | 463         | 407,674           |
| 225         | 404,600           | 307         | 405,120           | 271         | 405,705           | 345         | 406,339           | 459         | 408,991           | 413         | 407,684           | 403         | 407,684           | 403         | 407,684           |
| 189         | 404,504           | 244         | 405,137           | 366         | 405,706           | 313         | 406,343           | 451         | 408,996           | 460         | 407,685           | 526         | 407,685           | 526         | 407,685           |
| 191         | 404,518           | 307         | 405,141           | 266         | 405,714           | 305         | 406,344           | 393         | 407,000           | 398         | 407,691           | 454         | 407,691           | 454         | 407,691           |
| 190         | 404,520           | 232         | 405,143           | 322         | 405,719           | 312         | 406,345           | 393         | 407,001           | 434         | 407,699           | 435         | 407,699           | 435         | 407,699           |
| 194         | 404,533           | 307         | 405,144           | 268         | 405,721           | 310         | 406,346           | 458         | 407,008           | 413         | 407,700           | 401         | 407,700           | 401         | 407,700           |
| 356         | 404,539           | 253         | 405,145           | 311         | 405,730           | 391         | 406,348           | 386         | 407,016           | 445         | 407,702           | 444         | 407,702           | 444         | 407,702           |
| 219         | 404,541           | 233         | 405,155           | 354         | 405,763           | 312         | 406,355           | 369         | 407,018           | 397         | 407,708           | 469         | 407,708           | 469         | 407,708           |
| 355         | 404,544           | 306         | 405,163           | 306         | 405,788           | 460         | 406,356           | 372         | 407,023           | 487         | 407,709           | 464         | 407,709           | 464         | 407,709           |
| 355         | 404,547           | 243         | 405,165           | 360         | 405,797           | 313         | 406,367           | 371         | 407,024           | 398         | 407,710           | 495         | 407,710           | 495         | 407,710           |
| 205         | 404,603           | 306         | 405,166           | 278         | 405,800           | 322         | 406,370           | 381         | 407,034           | 489         | 407,713           | 853         | 407,713           | 853         | 407,713           |
| 205         | 404,565           | 306         | 405,173           | 266         | 405,809           | 313         | 406,379           | 414         | 407,035           | 443         | 407,716           | 505         | 407,716           | 505         | 407,716           |
| 220         | 404,569           | 366         | 405,180           | 302         | 405,825           | 316         | 406,380           | 394         | 407,036           | 444         | 407,722           | 442         | 407,722           | 442         | 407,722           |
| 106         | 404,571           | 310         | 405,192           | 347         | 405,826           | 334         | 406,385           | 394         | 407,037           | 440         | 407,728           | 474         | 407,728           | 474         | 407,728           |
| 178         | 404,591           | 225         | 405,195           | 313         | 405,837           | 349         | 406,393           | 400         | 407,038           | 413         | 407,729           | 492         | 407,729           | 492         | 407,729           |
| 355         | 404,612           | 250         | 405,250           | 882         | 405,842           | 459         | 406,398           | 376         | 407,039           | 412         | 407,731           | 463         | 407,731           | 463         | 407,731           |
| 355         | 404,613           | 314         | 405,252           | 316         | 405,844           | 312         | 406,399           | 369         | 407,040           | 489         | 407,734           | 461         | 407,734           | 461         | 407,734           |
| 355         | 404,627           | 274         | 405,254           | 386         | 405,850           | 322         | 406,403           | 427         | 407,043           | 411         | 407,743           | 485         | 407,743           | 485         | 407,743           |
| 310         | 404,632           | 256         | 405,255           | 386         | 405,874           | 304         | 406,406           | 432         | 407,050           | 414         | 407,744           | 565         | 407,744           | 565         | 407,744           |
| 244         | 404,635           | 243         | 405,260           | 340         | 405,875           | 375         | 406,407           | 380         | 407,055           | 445         | 407,752           | 475         | 407,752           | 475         | 407,752           |
| 281         | 404,643           | 267         | 405,262           | 385         | 405,878           | 336         | 406,425           | 386         | 407,058           | 454         | 407,773           | 494         | 407,773           | 494         | 407,773           |
| 232         | 404,644           | 256         | 405,263           | 337         | 405,880           | 340         | 406,431           | 401         | 407,065           | 443         | 407,776           | 434         | 407,776           | 434         | 407,776           |
| 236         | 404,660           | 258         | 405,264           | 317         | 405,884           | 316         | 406,440           | 459         | 407,066           | 448         | 407,778           | 433         | 407,778           | 433         | 407,778           |
| 275         | 404,664           | 288         | 405,275           | 316         | 405,885           | 331         | 406,443           | 393         | 407,077           | 404         | 407,781           | 507         | 407,781           | 507         | 407,781           |
| 236         | 404,665           | 288         | 405,276           | 384         | 405,890           | 340         | 406,444           | 371         | 407,084           | 433         | 407,782           | 434         | 407,782           | 434         | 407,782           |
| 221         | 404,670           | 258         | 405,282           | 312         | 405,900           | 313         | 406,445           | 451         | 407,088           | 412         | 407,792           | 526         | 407,792           | 526         | 407,792           |
| 233         | 404,674           | 301         | 405,283           | 348         | 405,902           | 460         | 406,455           | 457         | 407,089           | 717         | 407,794           | 512         | 407,794           | 512         | 407,794           |
| 281         | 404,677           | 299         | 405,285           | 301         | 405,906           | 333         | 406,470           | 371         | 407,124           | 429         | 407,797           | 504         | 407,797           | 504         | 407,797           |
| 234         | 404,682           | 264         | 405,291           | 336         | 405,918           | 322         | 406,484           | 467         | 407,127           | 489         | 407,801           | 506         | 407,801           | 506         | 407,801           |
| 234         | 404,684           | 313         | 405,296           | 335         | 405,937           | 844         | 406,490           | 386         | 407,137           | 398         | 407,807           | 434         | 407,807           | 434         | 407,807           |
| 309         | 404,686           | 257         | 405,306           | 313         | 405,949           | 355         | 406,495           | 489         | 407,153           | 435         | 407,812           | 441         | 407,812           | 441         | 407,812           |
| 244         | 404,687           | 266         | 405,309           | 314         | 405,950           | 336         | 406,505           | 393         | 407,168           | 399         | 407,821           | 474         | 407,821           | 474         | 407,821           |
| 244         | 404,691           | 260         | 405,311           | 359         | 405,964           | 451         | 406,513           | 371         | 407,169           | 451         | 407,829           | 498         | 407,829           | 498         | 407,829           |
| 275         | 404,696           | 258         | 405,312           | 359         | 405,966           | 331         | 406,530           | 393         | 407,174           | 409         | 407,830           | 477         | 407,830           | 477         | 407,830           |
| 282         | 404,698           | 290         | 405,313           | 359         | 405,967           | 355         | 406,531           | 381         | 407,178           | 488         | 407,839           | 443         | 407,839           | 443         | 407,839           |
| 225         | 404,699           | 277         | 405,315           | 334         | 405,970           | 359         | 406,546           | 489         | 407,181           | 442         | 407,840           | 445         | 407,840           | 445         | 407,840           |
| 235         | 404,720           | 380         | 405,321           | 340         | 405,978           | 439         | 406,553           | 451         | 407,187           | 443         | 407,852           | 433         | 407,852           | 433         | 407,852           |
| 207         | 404,733           | 270         | 405,340           | 334         | 405,978           | 302         | 406,560           | 458         | 407,193           | 500         | 407,856           | 511         | 407,856           | 511         | 407,856           |
| 287         | 404,744           | 267         | 405,345           | 335         | 405,983           | 459         | 406,561           | 488         | 407,194           | 444         | 407,866           | 474         | 407,866           | 474         | 407,866           |
| 281         | 404,755           | 251         | 405,349           | 434         | 405,986           | 371         | 406,562           | 358         | 407,200           | 443         | 407,880           | 474         | 407,880           | 474         | 407,880           |
| 220         | 404,759           | 270         | 405,361           | 322         | 405,992           | 439         | 406,563           | 490         | 407,206           | 445         | 407,891           | 612         | 407,891           | 612         | 407,891           |
| 244         | 404,760           | 344         | 405,368           | 385         | 405,997           | 331         | 406,565           | 369         | 407,208           | 410         | 407,893           | 497         | 407,893           | 497         | 407,893           |
| 230         | 404,787           | 324         | 405,371           | 301         | 406,001           | 355         | 406,580           | 370         | 407,213           | 426         | 407,941           | 501         | 407,941           | 501         | 407,941           |
| 244         | 404,790           | 257         | 405,379           | 391         | 406,006           | 439         | 406,582           | 459         | 407,225           | 443         | 407,944           | 508         | 407,944           | 508         | 407,944           |
| 234         | 404,792           | 271         | 405,381           | 413         | 406,008           | 356         | 406,586           | 392         | 407,227           | 489         | 407,948           | 512         | 407,948           | 512         | 407,948           |
| 226         | 404,794           | 267         | 405,389           | 393         | 406,011           | 371         | 406,602           | 409         | 407,234           | 400         | 407,956           | 491         | 407,956           | 491         | 407,956           |
| 225         | 404,797           | 281         | 405,391           | 450         | 406,012           | 459         | 406,621           | 371         | 407,240           | 398         | 407,957           | 511         | 407,957           | 511         | 407,957           |
| 274         | 404,801           | 271         | 405,394           | 400         | 406,016           | 358         | 406,644           | 414         | 407,245           | 433         | 407,959           | 625         | 407,959           | 625         | 407,959           |
| 234         | 404,805           | 380         | 405,398           | 286         | 406,018           | 451         | 406,646           | 444         | 407,246           | 399         | 407,963           | 506         | 407,963           | 506         | 407,963           |
| 213         | 404,833           | 275         | 405,402           | 324         | 406,025           | 434         | 406,652           | 414         | 407,248           | 427         | 407,965           | 511         | 407,965           | 511         | 407,965           |
| 283         | 404,840           | 268         | 405,407           | 330         | 406,033           | 460         | 406,653           | 440         | 407,276           | 458         | 407,973           | 525         | 407,973           | 525         | 407,973           |
| 219         | 404,850           | 250         | 405,433           | 410         | 406,036           | 386         | 406,658           | 441         | 407,311           | 498         | 407,976           | 509         | 407,976           | 509         | 407,976           |
| 219         | 404,855           | 324         | 405,445           | 331         | 406,043           | 451         | 406,661           | 448         | 407,312           | 498         | 407,978           | 500         | 407,978           | 500         | 407,978           |
| 232         | 404,856           | 254         | 405,446           | 301         | 406,055           | 336         | 406,663           | 429         | 407,313           | 498         | 407,979           | 628         | 407,979           | 628         | 407,979           |
| 285         | 404,863           | 323         | 405,450           | 450         | 406,062           | 385         | 406,665           | 508         | 407,314           | 498         | 407,985           | 511         | 407,985           | 511         | 407,985           |
| 281         | 404,867           | 268         | 405,456           | 409         | 406,066           | 385         | 406,675           | 487         | 407,316           | 531         | 407,988           | 599         | 407,988           | 599         | 407,988           |
| 213         | 404,869           | 268         | 405,462           | 384         | 406,067           | 441         | 406,682           | 480         | 407,328           | 435         | 407,990           | 508         | 407,990           | 508         | 407,990           |
| 285         | 404,871           | 299         | 405,463           | 384         | 406,068           | 386         | 406,686           | 440         | 407,329           | 432         | 407,992           | 614         | 407,992           | 614         | 407,992           |
| 294         | 404,874           | 288         | 405,483           | 334         | 406,074           | 381         | 406,687           | 435         | 407,3             |             |                   |             |                   |             |                   |

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|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|
| 408,145        | 612      | 408,850        | 584      | 409,519        | 569      | 410,106        | 000      | 410,708        | 650      | 411,492        | 704      | 412,115        | 782      |
| 408,203        | 402      | 408,866        | 584      | 409,520        | 572      | 410,115        | 567      | 410,800        | 654      | 411,498        | 718      | 412,172        | 773      |
| 408,207        | 402      | 408,872        | 538      | 409,521        | 570      | 410,118        | 008      | 410,813        | 701      | 411,499        | 750      | 412,173        | 842      |
| 408,212        | 576      | 408,876        | 561      | 409,522        | 507      | 410,125        | 068      | 410,814        | 060      | 411,501        | 714      | 412,175        | 709      |
| 408,213        | 539      | 408,891        | 561      | 409,528        | 084      | 410,126        | 068      | 410,816        | 065      | 411,502        | 714      | 412,176        | 781      |
| 408,215        | 408      | 408,896        | 585      | 409,530        | 580      | 410,132        | 038      | 410,827        | 085      | 411,500        | 715      | 412,185        | 760      |
| 408,219        | 402      | 408,897        | 541      | 409,531        | 766      | 410,144        | 021      | 410,830        | 072      | 411,507        | 733      | 412,188        | 771      |
| 408,220        | 402      | 408,901        | 500      | 409,534        | 576      | 410,148        | 711      | 410,833        | 791      | 411,521        | 730      | 412,193        | 845      |
| 408,224        | 402      | 408,906        | 552      | 409,535        | 560      | 410,152        | 068      | 410,834        | 084      | 411,522        | 736      | 412,205        | 845      |
| 408,229        | 560      | 408,930        | 546      | 409,537        | 594      | 410,153        | 068      | 410,837        | 086      | 411,524        | 846      | 412,208        | 780      |
| 408,230        | 402      | 408,931        | 572      | 409,542        | 002      | 410,161        | 651      | 410,838        | 054      | 411,528        | 750      | 412,209        | 821      |
| 408,232        | 402      | 408,934        | 570      | 409,549        | 502      | 410,164        | 715      | 410,843        | 794      | 411,530        | 711      | 412,224        | 779      |
| 408,236        | 528      | 408,947        | 507      | 409,549        | 730      | 410,171        | 039      | 410,845        | 079      | 411,534        | 718      | 412,244        | 843      |
| 408,237        | 584      | 408,948        | 507      | 409,582        | 581      | 410,175        | 701      | 410,848        | 073      | 411,535        | 736      | 412,248        | 773      |
| 408,240        | 572      | 408,949        | 584      | 409,588        | 585      | 410,192        | 704      | 410,857        | 065      | 411,557        | 844      | 412,252        | 073      |
| 408,244        | 507      | 408,950        | 570      | 409,592        | 580      | 410,208        | 710      | 410,874        | 790      | 411,575        | 853      | 412,254        | 756      |
| 408,251        | 494      | 408,951        | 014      | 409,597        | 579      | 410,221        | 833      | 410,875        | 087      | 411,584        | 704      | 412,265        | 785      |
| 408,253        | 584      | 408,952        | 540      | 409,598        | 017      | 410,227        | 608      | 410,881        | 746      | 411,587        | 756      | 412,270        | 753      |
| 408,254        | 584      | 408,960        | 583      | 409,599        | 080      | 410,233        | 746      | 410,883        | 745      | 411,602        | 736      | 412,273        | 892      |
| 408,255        | 014      | 408,967        | 530      | 409,611        | 500      | 410,249        | 040      | 410,914        | 057      | 411,611        | 730      | 412,277        | 845      |
| 408,258        | 518      | 408,971        | 579      | 409,615        | 018      | 410,256        | 842      | 410,930        | 069      | 411,624        | 737      | 412,301        | 773      |
| 408,259        | 528      | 408,982        | 533      | 409,621        | 759      | 410,270        | 040      | 410,931        | 069      | 411,637        | 738      | 412,303        | 836      |
| 408,260        | 520      | 408,985        | 539      | 409,623        | 002      | 410,271        | 039      | 410,936        | 734      | 411,640        | 720      | 412,305        | 751      |
| 408,265        | 540      | 408,987        | 534      | 409,625        | 570      | 410,274        | 040      | 410,940        | 072      | 411,645        | 736      | 412,309        | 753      |
| 408,272        | 052      | 408,989        | 552      | 409,627        | 730      | 410,280        | 068      | 410,945        | 701      | 411,655        | 789      | 412,311        | 784      |
| 408,273        | 019      | 408,991        | 557      | 409,630        | 575      | 410,291        | 074      | 410,956        | 080      | 411,660        | 704      | 412,316        | 891      |
| 408,275        | 015      | 408,993        | 578      | 409,640        | 561      | 410,295        | 008      | 410,967        | 057      | 411,670        | 736      | 412,317        | 781      |
| 408,277        | 019      | 409,001        | 586      | 409,641        | 593      | 410,301        | 608      | 410,971        | 072      | 411,672        | 720      | 412,343        | 822      |
| 408,280        | 402      | 409,008        | 570      | 409,644        | 500      | 410,305        | 038      | 410,988        | 750      | 411,685        | 724      | 412,340        | 751      |
| 408,288        | 493      | 409,009        | 593      | 409,658        | 092      | 410,323        | 844      | 410,989        | 090      | 411,689        | 733      | 412,363        | 842      |
| 408,290        | 520      | 409,014        | 530      | 409,679        | 572      | 410,331        | 711      | 411,009        | 065      | 411,690        | 733      | 412,366        | 781      |
| 408,304        | 401      | 409,023        | 570      | 409,680        | 592      | 410,333        | 745      | 411,029        | 074      | 411,695        | 724      | 412,377        | 781      |
| 408,312        | 493      | 409,029        | 537      | 409,679        | 017      | 410,347        | 832      | 411,032        | 088      | 411,699        | 704      | 412,385        | 812      |
| 408,313        | 491      | 409,030        | 534      | 409,679        | 845      | 410,357        | 035      | 411,033        | 082      | 411,702        | 734      | 412,387        | 812      |
| 408,342        | 014      | 409,034        | 559      | 409,680        | 088      | 410,364        | 734      | 411,041        | 082      | 411,722        | 724      | 412,388        | 785      |
| 408,347        | 520      | 409,038        | 578      | 409,696        | 064      | 410,369        | 047      | 411,058        | 089      | 411,731        | 714      | 412,391        | 755      |
| 408,350        | 520      | 409,042        | 559      | 409,700        | 708      | 410,373        | 710      | 411,058        | 089      | 411,733        | 842      | 412,401        | 754      |
| 408,362        | 520      | 409,053        | 552      | 409,710        | 833      | 410,385        | 710      | 411,064        | 714      | 411,741        | 709      | 412,417        | 844      |
| 408,367        | 528      | 409,055        | 577      | 409,718        | 846      | 410,390        | 891      | 411,066        | 070      | 411,744        | 720      | 412,430        | 845      |
| 408,369        | 511      | 409,058        | 577      | 409,719        | 846      | 410,392        | 746      | 411,105        | 081      | 411,750        | 780      | 412,443        | 844      |
| 408,396        | 528      | 409,098        | 577      | 409,727        | 049      | 410,394        | 005      | 411,121        | 058      | 411,757        | 789      | 412,460        | 748      |
| 408,412        | 518      | 409,110        | 560      | 409,730        | 090      | 410,400        | 842      | 411,122        | 058      | 411,763        | 704      | 412,470        | 754      |
| 408,413        | 527      | 409,111        | 535      | 409,732        | 018      | 410,407        | 846      | 411,123        | 058      | 411,773        | 710      | 412,475        | 747      |
| 408,440        | 018      | 409,120        | 570      | 409,733        | 017      | 410,421        | 021      | 411,132        | 058      | 411,779        | 832      | 412,495        | 747      |
| 408,451        | 520      | 409,121        | 567      | 409,733        | 017      | 410,427        | 009      | 411,134        | 085      | 411,793        | 832      | 412,498        | 772      |
| 408,456        | 010      | 409,130        | 579      | 409,750        | 050      | 410,430        | 039      | 411,155        | 059      | 411,818        | 832      | 412,497        | 784      |
| 408,458        | 882      | 409,131        | 535      | 409,752        | 008      | 410,445        | 009      | 411,158        | 791      | 411,820        | 832      | 412,511        | 750      |
| 408,459        | 882      | 409,132        | 534      | 409,755        | 018      | 410,470        | 876      | 411,162        | 082      | 411,822        | 720      | 412,514        | 774      |
| 408,467        | 520      | 409,134        | 557      | 409,760        | 092      | 410,479        | 836      | 411,166        | 706      | 411,828        | 780      | 412,525        | 775      |
| 408,468        | 528      | 409,137        | 580      | 409,770        | 752      | 410,481        | 052      | 411,177        | 071      | 411,846        | 718      | 412,558        | 805      |
| 408,475        | 526      | 409,139        | 559      | 409,771        | 071      | 410,487        | 045      | 411,179        | 052      | 411,860        | 750      | 412,565        | 754      |
| 408,489        | 500      | 409,147        | 587      | 409,772        | 088      | 410,498        | 070      | 411,180        | 794      | 411,867        | 794      | 412,583        | 814      |
| 408,491        | 066      | 409,151        | 587      | 409,773        | 018      | 410,500        | 617      | 411,181        | 090      | 411,870        | 789      | 412,586        | 876      |
| 408,492        | 066      | 409,164        | 557      | 409,774        | 587      | 410,503        | 085      | 411,182        | 076      | 411,871        | 771      | 412,594        | 785      |
| 408,497        | 406      | 409,166        | 570      | 409,775        | 000      | 410,506        | 086      | 411,185        | 058      | 411,876        | 781      | 412,601        | 795      |
| 408,523        | 512      | 409,182        | 550      | 409,790        | 700      | 410,511        | 088      | 411,190        | 056      | 411,877        | 794      | 412,605        | 785      |
| 408,569        | 537      | 409,190        | 561      | 409,791        | 090      | 410,520        | 050      | 411,198        | 791      | 411,887        | 754      | 412,618        | 779      |
| 408,570        | 557      | 409,206        | 613      | 409,801        | 708      | 410,526        | 017      | 411,202        | 087      | 411,891        | 736      | 412,625        | 768      |
| 408,571        | 537      | 409,237        | 535      | 409,802        | 587      | 410,541        | 617      | 411,211        | 082      | 411,893        | 749      | 412,629        | 892      |
| 408,574        | 538      | 409,238        | 535      | 409,813        | 064      | 410,552        | 066      | 411,234        | 790      | 411,894        | 749      | 412,634        | 774      |
| 408,578        | 539      | 409,247        | 570      | 409,810        | 064      | 410,576        | 068      | 411,241        | 073      | 411,900        | 737      | 412,635        | 774      |
| 408,582        | 500      | 409,275        | 572      | 409,824        | 708      | 410,598        | 756      | 411,248        | 050      | 411,904        | 749      | 412,644        | 815      |
| 408,590        | 536      | 409,276        | 572      | 409,832        | 009      | 410,602        | 718      | 411,260        | 714      | 411,907        | 843      | 412,653        | 785      |
| 408,597        | 547      | 409,277        | 572      | 409,837        | 018      | 410,607        | 054      | 411,265        | 715      | 411,908        | 833      | 412,664        | 845      |
| 408,617        | 538      | 409,280        | 004      | 409,847        | 757      | 410,614        | 034      | 411,266        | 082      | 411,912        | 782      | 412,687        | 805      |
| 408,628        | 013      | 409,284        | 002      | 409,849        | 000      | 410,635        | 843      | 411,267        | 075      | 411,915        | 794      | 412,699        | 784      |
| 408,632        | 584      | 409,290        | 003      | 409,854        | 000      | 411,045        | 707      | 411,271        | 767      | 411,918        | 708      | 412,710        | 796      |
| 408,638        | 535      | 409,297        | 003      | 409,863        | 843      | 410,649        | 051      | 411,272        | 820      | 411,930        | 755      | 412,723        | 875      |
| 408,642        | 585      | 409,310        | 846      | 409,871        | 065      | 410,650        | 057      | 411,285        | 084      | 411,935        | 735      | 412,752        | 774      |
| 408,648        | 578      | 409,312        | 065      | 409,875        | 064      | 410,651        | 026      | 411,303        | 709      | 411,943        | 760      | 412,761        | 822      |
| 408,654        | 539      | 409,314        | 756      | 409,893        | 580      | 410,652        | 058      | 411,308        | 081      | 411,952        | 754      | 412,762        | 768      |
| 408,659        | 557      | 409,315        | 570      | 409,895        | 057      | 410,660        | 066      | 411,321        | 760      | 411,982        | 842      | 412,765        | 822      |
| 408,662        | 585      | 409,320        | 063      | 409,896        | 592      | 410,683        | 706      | 411,324        | 767      | 411,983        | 720      | 412,766        | 771      |
| 408,667        | 547      | 409,332        | 705      | 409,901        | 064      | 410,697        | 068      | 411,332        | 715      | 411,985        | 737      | 412,768        | 774      |
| 408,669        | 577      | 409,334        | 772      | 409,903        | 065      | 410,707        | 017      | 411,334        | 088      | 412,005        | 752      | 412,775        | 843      |
| 408,676        | 535      | 409,336        | 023      | 409,910        | 843      | 410,711        | 746      | 411,342        | 821      | 412,014        | 755      | 412,776        | 832      |
| 408,677        | 537      | 409,338        | 586      | 409,911        | 843      | 410,719        | 746      | 411,377        | 822      | 412,021        | 782      | 412,778        | 798      |
| 408,684        | 560      | 409,349        | 591      | 409,916        | 070      | 410,724        | 817      | 411,380        | 074      | 412,028        | 844      | 412,790        | 899      |
| 408,688        | 540      | 409,350        | 018      | 409,921        | 066      | 410,737        | 057      | 411,390        | 727      | 412,029        | 736      | 412,793        | 795      |
| 408,689        | 546      | 409,353        | 567      | 409,936        | 591      | 410,738        | 080      | 411,425        | 734      | 412,035        | 779      | 412,798        | 795      |
| 408,691        | 015      | 409,354        | 571      | 409,969        | 708      | 410,739        | 054      | 411,429        | 705      | 412,049        | 751      | 412,805        | 833      |
| 408,696        | 576      | 409,355        | 760      | 409,971        | 088      | 410,741        | 791      | 411,430        | 732      | 412,055        | 750      | 412,808        | 843      |
| 408,708        | 534      | 409,361        | 577      | 409,977        | 008      | 410,742        | 068      | 411,431        | 794      | 412,058        | 844      | 412,831        | 783      |
| 408,710        | 576      | 409,380        | 584      | 409,988        | 009      | 410,749        | 085      | 411,433        | 710      | 412,065        | 782      | 412,86         |          |

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| 412,050        | 814      | 413,537        | 1002     | 414,138        | 878      | 414,751        | 923      | 415,438        | 933      | 416,200        | 1092     | 416,973        | 1073     |
| 412,952        | 830      | 413,541        | 1079     | 414,148        | 920      | 414,766        | 920      | 415,447        | 956      | 416,209        | 969      | 416,976        | 1048     |
| 412,954        | 788      | 413,559        | 973      | 414,153        | 925      | 414,768        | 921      | 415,472        | 953      | 416,216        | 944      | 417,011        | 1071     |
| 412,967        | 806      | 413,570        | 1016     | 414,157        | 862      | 414,770        | 925      | 415,485        | 1065     | 416,227        | 945      | 417,014        | 1096     |
| 412,979        | 840      | 413,588        | 826      | 414,160        | 896      | 414,772        | 920      | 415,509        | 944      | 416,245        | 1004     | 417,031        | 1072     |
| 412,980        | 801      | 413,595        | 816      | 414,166        | 842      | 414,778        | 923      | 415,526        | 1002     | 416,252        | 1023     | 417,046        | 1072     |
| 412,988        | 885      | 413,596        | 847      | 414,181        | 815      | 414,779        | 911      | 415,527        | 954      | 416,256        | 1036     | 417,070        | 1040     |
| 412,989        | 845      | 413,599        | 824      | 414,182        | 847      | 414,781        | 911      | 415,536        | 962      | 416,273        | 1036     | 417,072        | 1060     |
| 412,992        | 826      | 413,605        | 801      | 414,205        | 933      | 414,783        | 1066     | 415,542        | 1066     | 416,290        | 1062     | 417,075        | 1077     |
| 412,995        | 934      | 413,606        | 844      | 414,211        | 1016     | 414,799        | 899      | 415,555        | 972      | 416,291        | 1004     | 417,084        | 1072     |
| 413,001        | 850      | 413,609        | 816      | 414,212        | 1016     | 414,801        | 932      | 415,559        | 1068     | 416,340        | 1023     | 417,087        | 1050     |
| 413,007        | 849      | 413,610        | 817      | 414,218        | 877      | 414,814        | 897      | 415,565        | 938      | 416,378        | 1019     | 417,101        | 1050     |
| 413,012        | 935      | 413,636        | 853      | 414,230        | 921      | 414,817        | 912      | 415,579        | 900      | 416,379        | 1003     | 417,116        | 1040     |
| 413,014        | 848      | 413,637        | 1001     | 414,231        | 817      | 414,824        | 892      | 415,582        | 972      | 416,385        | 1005     | 417,121        | 1070     |
| 413,016        | 847      | 413,639        | 825      | 414,234        | 933      | 414,829        | 911      | 415,594        | 1080     | 416,391        | 1013     | 417,122        | 1071     |
| 413,041        | 803      | 413,640        | 826      | 414,237        | 1000     | 414,847        | 871      | 415,601        | 973      | 416,404        | 1000     | 417,162        | 1071     |
| 413,043        | 823      | 413,648        | 881      | 414,242        | 881      | 414,862        | 898      | 415,602        | 972      | 416,410        | 1024     | 417,166        | 1059     |
| 413,059        | 784      | 413,658        | 827      | 414,285        | 896      | 414,866        | 932      | 415,611        | 1077     | 416,412        | 1021     | 417,168        | 1055     |
| 413,087        | 880      | 413,660        | 896      | 414,286        | 846      | 414,871        | 960      | 415,632        | 922      | 416,413        | 1021     | 417,173        | 1059     |
| 413,093        | 813      | 413,674        | 832      | 414,293        | 941      | 414,872        | 925      | 415,638        | 986      | 416,423        | 1037     | 417,174        | 1055     |
| 413,095        | 813      | 413,677        | 816      | 414,299        | 942      | 414,886        | 911      | 415,648        | 985      | 416,425        | 1005     | 417,188        | 1068     |
| 413,098        | 848      | 413,684        | 896      | 414,312        | 920      | 414,905        | 1057     | 415,656        | 986      | 416,430        | 1040     | 417,194        | 1072     |
| 413,104        | 784      | 413,698        | 842      | 414,334        | 857      | 414,911        | 932      | 415,658        | 961      | 416,433        | 1005     | 417,197        | 1066     |
| 413,118        | 827      | 413,700        | 825      | 414,353        | 908      | 414,916        | 940      | 415,672        | 1066     | 416,443        | 1040     | 417,198        | 1066     |
| 413,120        | 801      | 413,713        | 925      | 414,361        | 950      | 414,918        | 917      | 415,676        | 930      | 416,473        | 1012     | 417,218        | 1054     |
| 413,130        | 868      | 413,714        | 859      | 414,362        | 950      | 414,932        | 950      | 415,700        | 974      | 416,476        | 1022     | 417,220        | 1054     |
| 413,134        | 842      | 413,718        | 897      | 414,363        | 950      | 414,938        | 942      | 415,701        | 969      | 416,482        | 1018     | 417,222        | 1053     |
| 413,141        | 845      | 413,719        | 1000     | 414,364        | 950      | 414,941        | 942      | 415,715        | 1036     | 416,483        | 1077     | 417,224        | 1060     |
| 413,146        | 802      | 413,721        | 833      | 414,365        | 950      | 414,948        | 871      | 415,718        | 954      | 416,489        | 1037     | 417,252        | 1095     |
| 413,150        | 881      | 413,722        | 833      | 414,366        | 950      | 414,949        | 898      | 415,728        | 973      | 416,490        | 1092     | 417,257        | 1084     |
| 413,162        | 849      | 413,725        | 906      | 414,367        | 950      | 414,952        | 921      | 415,740        | 975      | 416,495        | 1017     | 417,258        | 1095     |
| 413,167        | 784      | 413,728        | 848      | 414,368        | 950      | 414,972        | 950      | 415,742        | 1004     | 416,499        | 1023     | 417,262        | 1084     |
| 413,177        | 845      | 413,738        | 896      | 414,369        | 950      | 414,988        | 912      | 415,748        | 953      | 416,502        | 955      | 417,271        | 1070     |
| 413,183        | 859      | 413,739        | 836      | 414,370        | 1016     | 414,998        | 909      | 415,749        | 1005     | 416,505        | 1003     | 417,273        | 1072     |
| 413,185        | 850      | 413,744        | 917      | 414,381        | 1004     | 415,025        | 1066     | 415,753        | 1004     | 416,513        | 1001     | 417,300        | 1116     |
| 413,186        | 934      | 413,753        | 800      | 414,393        | 897      | 415,027        | 923      | 415,756        | 1037     | 416,516        | 1041     | 417,300        | 1041     |
| 413,197        | 868      | 413,754        | 824      | 414,394        | 924      | 415,042        | 923      | 415,764        | 973      | 416,565        | 1013     | 417,322        | 1097     |
| 413,198        | 830      | 413,756        | 826      | 414,403        | 873      | 415,052        | 950      | 415,766        | 952      | 416,566        | 1117     | 417,331        | 1057     |
| 413,204        | 784      | 413,772        | 880      | 414,404        | 873      | 415,055        | 956      | 415,769        | 944      | 416,579        | 1050     | 417,382        | 1084     |
| 413,209        | 843      | 413,777        | 815      | 414,415        | 877      | 415,057        | 926      | 415,775        | 990      | 416,580        | 1052     | 417,383        | 1094     |
| 413,210        | 784      | 413,788        | 826      | 414,417        | 912      | 415,065        | 952      | 415,779        | 1085     | 416,586        | 1038     | 417,388        | 1066     |
| 413,221        | 845      | 413,800        | 847      | 414,425        | 898      | 415,066        | 1066     | 415,789        | 971      | 416,590        | 1007     | 417,394        | 1095     |
| 413,222        | 845      | 413,806        | 896      | 414,426        | 1005     | 415,069        | 954      | 415,790        | 974      | 416,599        | 1050     | 417,423        | 1095     |
| 413,223        | 848      | 413,814        | 892      | 414,428        | 1065     | 415,073        | 934      | 415,792        | 952      | 416,611        | 1052     | 417,433        | 1066     |
| 413,238        | 884      | 413,828        | 834      | 414,435        | 896      | 415,077        | 924      | 415,793        | 952      | 416,612        | 1052     | 417,444        | 1084     |
| 413,240        | 832      | 413,853        | 909      | 414,445        | 950      | 415,081        | 989      | 415,801        | 946      | 416,614        | 1012     | 417,453        | 1084     |
| 413,252        | 785      | 413,859        | 816      | 414,446        | 1004     | 415,083        | 988      | 415,806        | 1085     | 416,615        | 1021     | 417,454        | 1084     |
| 413,274        | 802      | 413,863        | 832      | 414,452        | 874      | 415,086        | 1065     | 415,819        | 986      | 416,631        | 1050     | 417,465        | 1087     |
| 413,283        | 974      | 413,865        | 1017     | 414,453        | 875      | 415,088        | 931      | 415,822        | 1000     | 416,632        | 1035     | 417,466        | 1101     |
| 413,286        | 812      | 413,869        | 832      | 414,461        | 923      | 415,094        | 923      | 415,832        | 973      | 416,658        | 1050     | 417,470        | 1070     |
| 413,289        | 829      | 413,877        | 909      | 414,463        | 1004     | 415,133        | 933      | 415,838        | 973      | 416,659        | 1059     | 417,481        | 1072     |
| 413,294        | 816      | 413,881        | 1016     | 414,467        | 1010     | 415,135        | 934      | 415,868        | 986      | 416,660        | 1117     | 417,480        | 1096     |
| 413,297        | 846      | 413,882        | 916      | 414,521        | 912      | 415,136        | 942      | 415,877        | 954      | 416,661        | 1022     | 417,491        | 1070     |
| 413,299        | 925      | 413,895        | 1016     | 414,522        | 911      | 415,172        | 953      | 415,881        | 944      | 416,664        | 1085     | 417,496        | 1094     |
| 413,300        | 827      | 413,900        | 1012     | 414,527        | 898      | 415,179        | 940      | 415,889        | 945      | 416,666        | 1037     | 417,497        | 1095     |
| 413,307        | 871      | 413,905        | 847      | 414,529        | 1005     | 415,181        | 1106     | 415,900        | 1085     | 416,675        | 1024     | 417,513        | 1083     |
| 413,311        | 829      | 413,907        | 853      | 414,530        | 1068     | 415,186        | 912      | 415,901        | 1060     | 416,679        | 1023     | 417,519        | 1116     |
| 413,322        | 1000     | 413,909        | 824      | 414,541        | 881      | 415,195        | 934      | 415,924        | 1009     | 416,730        | 1012     | 417,551        | 1082     |
| 413,328        | 831      | 413,915        | 894      | 414,551        | 900      | 415,203        | 930      | 416,925        | 955      | 416,734        | 1022     | 417,552        | 1083     |
| 413,332        | 1016     | 413,923        | 896      | 414,558        | 912      | 415,205        | 930      | 416,942        | 974      | 416,742        | 1013     | 417,556        | 1094     |
| 413,333        | 1010     | 413,927        | 916      | 414,570        | 875      | 415,207        | 1007     | 416,945        | 954      | 416,744        | 1057     | 417,563        | 1072     |
| 413,337        | 843      | 413,939        | 882      | 414,572        | 875      | 415,213        | 925      | 416,949        | 1037     | 416,757        | 1059     | 417,568        | 1118     |
| 413,342        | 846      | 413,942        | 800      | 414,573        | 875      | 415,224        | 923      | 416,953        | 974      | 416,761        | 1018     | 417,563        | 1093     |
| 413,343        | 906      | 413,950        | 847      | 414,574        | 873      | 415,235        | 938      | 416,954        | 974      | 416,769        | 992      | 417,567        | 1109     |
| 413,344        | 827      | 413,965        | 817      | 414,576        | 880      | 415,238        | 935      | 416,977        | 986      | 416,774        | 1013     | 417,600        | 1098     |
| 413,345        | 806      | 413,969        | 816      | 414,577        | 1017     | 415,256        | 935      | 416,985        | 1060     | 416,778        | 1051     | 417,603        | 1098     |
| 413,346        | 833      | 413,979        | 1038     | 414,580        | 1007     | 415,259        | 953      | 416,997        | 1003     | 416,779        | 1051     | 417,670        | 1098     |
| 413,357        | 830      | 414,007        | 816      | 414,581        | 952      | 415,273        | 929      | 416,916        | 1009     | 416,814        | 1055     | 417,685        | 1084     |
| 413,366        | 826      | 414,015        | 815      | 414,597        | 1018     | 415,282        | 912      | 416,920        | 1005     | 416,818        | 1035     | 417,715        | 1117     |
| 413,367        | 801      | 414,035        | 817      | 414,605        | 908      | 415,286        | 911      | 416,924        | 1093     | 416,826        | 1007     | 417,763        | 1118     |
| 413,368        | 829      | 414,036        | 801      | 414,606        | 1017     | 415,301        | 912      | 416,925        | 1010     | 416,832        | 1059     | 417,794        | 1095     |
| 413,389        | 843      | 414,040        | 958      | 414,610        | 926      | 415,303        | 940      | 416,928        | 1009     | 416,847        | 1022     | 417,798        | 1110     |
| 413,394        | 843      | 414,041        | 1017     | 414,643        | 892      | 415,311        | 939      | 416,938        | 993      | 416,852        | 1057     | 417,820        | 1098     |
| 413,398        | 799      | 414,044        | 849      | 414,644        | 918      | 415,312        | 930      | 416,951        | 945      | 416,860        | 1057     | 417,830        | 1112     |
| 413,412        | 1000     | 414,053        | 842      | 414,652        | 911      | 415,329        | 923      | 416,953        | 1004     | 416,861        | 1083     | 417,831        | 1100     |
| 413,417        | 800      | 414,054        | 842      | 414,654        | 1066     | 415,338        | 911      | 416,956        | 1024     | 416,869        | 992      | 417,845        | 1109     |
| 413,428        | 861      | 414,055        | 1065     | 414,664        | 955      | 415,341        | 930      | 416,977        | 1023     | 416,878        | 1052     | 417,857        | 1111     |
| 413,430        | 860      | 414,056        | 891      | 414,665        | 938      | 415,346        | 912      | 416,979        | 1024     | 416,885        | 1022     | 417,861        | 1095     |
| 413,439        | 805      | 414,067        | 816      | 414,667        | 955      | 415,377        | 953      | 416,982        | 944      | 416,887        | 1051     | 417,862        | 1096     |
| 413,445        | 925      | 414,072        | 872      | 414,672        | 950      | 415,379        | 944      | 416,983        | 944      | 416,889        | 1058     | 417,871        | 1110     |
| 413,457        | 830      | 414,073        | 883      | 414,681        | 958      | 415,380        | 944      | 416,984        | 1010     | 416,892        | 1050     | 417,872        | 1110     |
| 413,463        | 799      | 414,074        | 1010     | 414,684        | 955      | 415,381        | 944      | 416,990        | 944      | 416,900        | 1017     | 417,875        | 1096     |
| 413,465        | 1000     | 414,077        | 894      | 41             |          |                |          |                |          |                |          |                |          |

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|-----|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|-----|
| 90  | 1,895,072      | 23       | 1,896,984      | 21       | 1,899,031      | 65       | 1,900,866      | 98       | 1,902,403      | 152      | 176 |
| 103 | 1,895,121      | 17       | 1,896,986      | 9        | 1,899,064      | 68       | 1,900,893      | 105      | 1,902,513      | 151      | 134 |
| 103 | 1,895,144      | 45       | 1,897,008      | 2        | 1,899,132      | 71       | 1,900,961      | 84       | 1,902,514      | 142      | 120 |
| 101 | 1,895,154      | 4        | 1,897,011      | 25       | 1,899,133      | 67       | 1,900,988      | 102      | 1,902,517      | 176      | 134 |
| 101 | 1,895,156      | 4        | 1,897,016      | 29       | 1,899,136      | 68       | 1,900,995      | 126      | 1,902,538      | 120      | 134 |
| 101 | 1,895,159      | 46       | 1,897,017      | 23       | 1,899,147      | 78       | 1,901,018      | 102      | 1,902,570      | 120      | 153 |
| 11  | 1,895,175      | 23       | 1,897,019      | 9        | 1,899,148      | 66       | 1,901,020      | 94       | 1,902,591      | 152      | 134 |
| 11  | 1,895,176      | 23       | 1,897,021      | 9        | 1,899,152      | 66       | 1,901,030      | 102      | 1,902,590      | 128      | 154 |
| 11  | 1,895,220      | 4        | 1,897,031      | 61       | 1,899,153      | 66       | 1,901,051      | 94       | 1,902,621      | 152      | 275 |
| 381 | 1,895,239      | 24       | 1,897,034      | 72       | 1,899,155      | 69       | 1,901,052      | 99       | 1,902,625      | 174      | 275 |
| 43  | 1,895,275      |          | 1,897,071      | 71       | 1,899,161      | 65       | 1,901,053      | 99       | 1,902,630      | 151      | 106 |
| 381 | 1,895,276      |          | 1,897,140      | 67       | 1,899,230      | 62       | 1,901,054      | 99       | 1,902,635      | 150      | 103 |
| 355 | 1,895,284      |          | 1,897,176      | 48       | 1,899,233      | 69       | 1,901,055      | 99       | 1,902,638      | 151      | 103 |
| 356 | 1,895,320      | 10       | 1,897,213      | 47       | 1,899,239      | 49       | 1,901,059      | 99       | 1,902,642      | 133      | 103 |
| 355 | 1,895,374      | 9        | 1,897,214      | 62       | 1,899,250      | 47       | 1,901,057      | 99       | 1,902,659      | 128      | 145 |
| 355 | 1,895,421      | 24       | 1,897,217      | 69       | 1,899,275      | 52       | 1,901,079      | 79       | 1,902,668      | 154      | 145 |
| 103 | 1,895,489      | 24       | 1,897,259      | 60       | 1,899,310      | 60       | 1,901,083      | 121      | 1,902,721      | 176      | 133 |
| 93  | 1,895,490      | 25       | 1,896,265      | 66       | 1,899,409      | 48       | 1,901,084      | 121      | 1,902,739      | 120      | 133 |
| 680 | 1,895,492      | 16       | 1,897,308      | 68       | 1,899,413      | 60       | 1,901,102      | 101      | 1,902,773      | 117      | 145 |
| 103 | 1,895,504      | 3        | 1,897,328      | 52       | 1,899,419      | 104      | 1,901,109      | 117      | 1,902,801      | 145      | 133 |
| 103 | 1,895,505      | 3        | 1,897,330      | 60       | 1,899,426      | 30       | 1,901,111      | 80       | 1,902,815      | 152      | 133 |
| 105 | 1,895,568      | 23       | 1,897,387      | 47       | 1,899,473      | 63       | 1,901,124      | 105      | 1,902,838      | 153      | 275 |
| 101 | 1,895,569      | 23       | 1,897,394      | 60       | 1,899,498      | 48       | 1,901,128      | 106      | 1,902,839      | 153      | 275 |
| 122 | 1,895,620      | 17       | 1,897,424      | 117      | 1,899,572      | 61       | 1,901,130      | 84       | 1,902,880      | 133      | 144 |
| 94  | 1,895,641      | 28       | 1,897,480      | 68       | 1,899,573      | 61       | 1,901,159      | 80       | 1,902,911      | 128      | 164 |
| 191 | 1,895,652      | 2        | 1,897,582      | 52       | 1,899,574      | 61       | 1,901,163      | 84       | 1,902,918      | 128      | 147 |
| 680 | 1,895,674      | 46       | 1,897,689      | 67       | 1,899,576      | 63       | 1,901,192      | 80       | 1,902,927      | 128      | 154 |
| 10  | 1,895,675      | 24       | 1,897,613      | 48       | 1,899,588      | 62       | 1,901,207      | 80       | 1,902,930      | 154      | 151 |
| 10  | 1,895,676      | 8        | 1,897,617      | 52       | 1,899,590      | 63       | 1,901,208      | 80       | 1,902,937      | 154      | 147 |
| 11  | 1,895,683      | 4        | 1,897,629      | 69       | 1,899,610      | 69       | 1,901,209      | 80       | 1,902,938      | 154      | 151 |
| 10  | 1,895,685      | 25       | 1,897,638      | 62       | 1,899,623      | 68       | 1,901,221      | 94       | 1,902,948      | 154      | 151 |
| 10  | 1,895,686      | 25       | 1,897,647      | 65       | 1,899,627      | 60       | 1,901,222      | 94       | 1,902,982      | 120      | 153 |
| 11  | 1,895,724      | 8        | 1,897,667      | 62       | 1,899,631      | 67       | 1,901,249      | 96       | 1,902,986      | 133      | 151 |
| 11  | 1,895,755      | 2        | 1,897,721      | 48       | 1,899,640      | 62       | 1,901,313      | 80       | 1,902,993      | 147      | 152 |
| 11  | 1,895,756      | 24       | 1,897,728      | 126      | 1,899,670      | 67       | 1,901,324      | 97       | 1,903,042      | 134      | 176 |
| 11  | 1,895,771      | 3        | 1,897,729      | 117      | 1,899,701      | 66       | 1,901,325      | 97       | 1,903,077      | 153      | 152 |
| 11  | 1,895,775      | 8        | 1,897,740      | 60       | 1,899,734      | 66       | 1,901,364      | 95       | 1,903,117      | 146      | 129 |
| 10  | 1,895,795      | 2        | 1,897,744      | 48       | 1,899,765      | 68       | 1,901,367      | 101      | 1,903,118      | 140      | 144 |
| 55  | 1,895,811      | 24       | 1,897,750      | 65       | 1,899,768      | 64       | 1,901,370      | 81       | 1,903,130      | 242      | 147 |
| 94  | 1,895,855      | 25       | 1,897,766      | 48       | 1,899,873      | 66       | 1,901,400      | 100      | 1,903,140      | 102      | 154 |
| 54  | 1,895,878      | 23       | 1,897,802      | 68       | 1,899,906      | 67       | 1,901,410      | 109      | 1,903,160      | 176      | 30  |
| 55  | 1,895,929      | 17       | 1,897,804      | 47       | 1,899,918      | 8        | 1,901,464      | 104      | 1,903,167      | 144      | 53  |
| 54  | 1,895,955      | 7        | 1,897,821      | 61       | 1,899,930      | 80       | 1,901,468      | 124      | 1,903,168      | 144      | 13  |
| 54  | 1,895,956      | 7        | 1,897,833      | 68       | 1,899,952      | 117      | 1,901,469      | 124      | 1,903,187      | 144      | 182 |
| 55  | 1,895,998      | 23       | 1,897,850      | 52       | 1,900,014      | 80       | 1,901,499      | 100      | 1,903,230      | 140      | 181 |
| 55  | 1,896,006      | 10       | 1,897,856      | 63       | 1,900,018      | 106      | 1,901,543      | 101      | 1,903,237      | 133      | 180 |
| 54  | 1,896,020      | 17       | 1,897,873      | 62       | 1,900,047      | 84       | 1,901,585      | 105      | 1,903,237      | 153      | 182 |
| 53  | 1,896,031      | 3        | 1,897,876      | 48       | 1,900,140      | 124      | 1,901,639      | 106      | 1,903,298      | 120      | 84  |
| 65  | 1,896,088      | 23       | 1,897,996      | 60       | 1,900,141      | 84       | 1,901,652      | 106      | 1,903,310      | 120      | 84  |
| 55  | 1,896,155      | 102      | 1,898,039      | 62       | 1,900,157      | 124      | 1,901,658      | 91       | 1,903,325      | 140      | 204 |
| 54  | 1,896,158      | 102      | 1,898,057      | 117      | 1,900,162      | 99       | 1,901,756      | 106      | 1,903,340      | 153      | 184 |
| 54  | 1,896,171      | 43       | 1,898,068      | 68       | 1,900,173      | 84       | 1,901,803      | 84       | 1,903,368      | 129      | 356 |
| 54  | 1,896,178      | 22       | 1,898,086      | 48       | 1,900,182      | 104      | 1,901,804      | 84       | 1,903,370      | 135      | 193 |
| 53  | 1,896,190      | 21       | 1,898,093      | 86       | 1,900,190      | 81       | 1,901,807      | 274      | 1,903,470      | 152      | 356 |
| 53  | 1,896,193      | 24       | 1,898,105      | 192      | 1,900,211      | 100      | 1,901,844      | 94       | 1,903,553      | 139      | 206 |
| 55  | 1,896,221      | 103      | 1,898,187      | 75       | 1,900,212      | 100      | 1,901,875      | 94       | 1,903,583      | 134      | 182 |
| 54  | 1,896,287      | 16       | 1,898,189      | 75       | 1,900,216      | 100      | 1,901,884      | 144      | 1,903,614      | 174      | 54  |
| 55  | 1,896,291      | 3        | 1,898,207      | 68       | 1,900,220      | 105      | 1,901,885      | 144      | 1,903,622      | 139      | 13  |
| 54  | 1,896,320      | 3        | 1,898,345      | 77       | 1,900,223      | 101      | 1,901,890      | 147      | 1,903,626      | 162      | 28  |
| 78  | 1,896,381      | 102      | 1,898,350      | 63       | 1,900,235      | 95       | 1,901,925      | 144      | 1,903,640      | 154      | 176 |
| 85  | 1,896,403      | 17       | 1,898,358      | 63       | 1,900,237      | 99       | 1,901,930      | 144      | 1,903,644      | 154      | 197 |
| 78  | 1,896,406      | 17       | 1,898,371      | 62       | 1,900,239      | 96       | 1,901,960      | 142      | 1,903,705      | 134      | 221 |
| 25  | 1,896,410      | 24       | 1,898,405      | 61       | 1,900,246      | 94       | 1,901,970      | 128      | 1,903,733      | 151      | 177 |
| 23  | 1,896,420      | 17       | 1,898,415      | 102      | 1,900,247      | 94       | 1,901,978      | 157      | 1,903,768      | 147      | 190 |
| 16  | 1,896,470      | 9        | 1,898,437      | 67       | 1,900,253      | 94       | 1,901,984      | 128      | 1,903,787      | 14       | 190 |
| 23  | 1,896,473      | 24       | 1,898,480      | 47       | 1,900,320      | 126      | 1,901,999      | 128      | 1,903,795      | 128      | 204 |
| 20  | 1,896,478      | 21       | 1,898,487      | 67       | 1,900,381      | 94       | 1,902,004      | 134      | 1,903,803      | 134      | 177 |
| 35  | 1,896,570      | 23       | 1,898,518      | 63       | 1,900,383      | 93       | 1,902,050      | 152      | 1,903,814      | 173      | 204 |
| 10  | 1,896,572      | 23       | 1,898,541      | 94       | 1,900,386      | 97       | 1,902,061      | 177      | 1,903,815      | 143      | 177 |
| 23  | 1,896,606      | 24       | 1,898,542      | 94       | 1,900,392      | 95       | 1,902,078      | 120      | 1,903,821      | 146      | 45  |
| 2   | 1,896,613      | 24       | 1,898,579      | 52       | 1,900,394      | 89       | 1,902,089      | 151      | 1,903,842      | 153      | 37  |
| 30  | 1,896,618      | 4        | 1,898,636      | 63       | 1,900,399      | 79       | 1,902,090      | 151      | 1,903,845      | 131      | 103 |
| 17  | 1,896,625      | 2        | 1,898,674      | 66       | 1,900,397      | 79       | 1,902,092      | 152      | 1,903,999      | 127      | 176 |
| 23  | 1,896,643      | 104      | 1,898,701      | 66       | 1,900,398      | 84       | 1,902,125      | 135      | 1,903,944      | 146      | 205 |
| 105 | 1,896,758      | 25       | 1,898,702      | 65       | 1,900,432      | 96       | 1,902,144      | 145      | 1,903,949      | 237      | 205 |
| 105 | 1,896,762      | 25       | 1,898,707      | 95       | 1,900,472      | 105      | 1,902,160      | 134      | 1,903,952      | 152      | 204 |
| 8   | 1,896,780      | 104      | 1,898,731      | 63       | 1,900,534      | 106      | 1,902,171      | 174      | 1,903,976      | 147      | 194 |
| 25  | 1,896,807      | 104      | 1,898,733      | 48       | 1,900,536      | 96       | 1,902,171      | 157      | 1,904,065      | 135      | 204 |
| 23  | 1,896,823      | 20       | 1,898,765      | 67       | 1,900,667      | 84       | 1,902,203      | 157      | 1,904,087      | 14       | 198 |
| 23  | 1,896,858      | 192      | 1,898,774      | 61       | 1,900,670      | 93       | 1,902,204      | 172      | 1,904,101      | 144      | 198 |
| 8   | 1,896,876      | 24       | 1,898,775      | 60       | 1,900,698      | 92       | 1,902,213      | 102      | 1,904,139      | 154      | 53  |
| 117 | 1,896,884      | 21       | 1,898,776      | 63       | 1,900,699      | 92       | 1,902,226      | 174      | 1,904,175      | 152      | 31  |
| 25  | 1,896,888      | 23       | 1,898,840      | 61       | 1,900,715      | 864      | 1,902,248      | 176      | 1,904,176      | 152      | 176 |
| 25  | 1,896,889      | 23       | 1,898,839      | 97       | 1,900,752      | 84       | 1,902,287      | 153      | 1,904,183      | 135      | 191 |
| 25  | 1,896,890      | 23       | 1,898,908      | 67       | 1,900,753      | 84       | 1,902,317      | 144      | 1,904,218      | 144      | 176 |
| 25  | 1,896,894      | 4        | 1,898,909      | 67       | 1,900,759      | 108      | 1,902,385      | 153      | 1,904,233      | 154      | 84  |
| 8   | 1,896,895      | 4        | 1,898,933      | 67       | 1,900,809      | 126      | 1,902,390      | 128      | 1,904,241      | 104      | 208 |
| 3   | 1,896,896      | 4        | 1,898,970      | 52       | 1,900,846      | 80       | 1,902,413      | 129      | 1,904,273      | 153      | 204 |
| 16  | 1,896,897      | 4        | 1,899,004      | 191      | 1,900,850      | 102      | 1,902,435      | 151      | 1,904,334      | 120      | 206 |
| 9   | 1,896,910      | 2        | 1,899,015      | 48       | 1,900,857      | 81       | 1,902,475      | 154      | 1,904,360      | 153      |     |
| 9   | 1,896,916      | 17       | 1,899,030      | 48       | 1,900,859      | 95       | 1,902,478      |          |                |          |     |



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|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|
| 1,005,458      | 170      | 1,006,664      | 177      | 1,007,801      | 121      | 1,008,759      | 241      | 1,009,992      | 257      | 1,011,131      | 231      | 1,012,348      | 183      |
| 1,005,493      | 28       | 1,006,675      | 222      | 1,007,809      | 174      | 1,008,773      | 122      | 1,009,996      | 274      | 1,011,139      | 278      | 1,012,349      | 183      |
| 1,005,505      | 205      | 1,006,680      | 203      | 1,007,818      | 106      | 1,008,792      | 243      | 1,010,017      | 284      | 1,011,140      | 278      | 1,012,364      | 190      |
| 1,005,516      | 57       | 1,006,689      | 205      | 1,007,820      | 87       | 1,008,795      | 253      | 1,010,024      | 250      | 1,011,145      | 270      | 1,012,373      | 230      |
| 1,005,517      | 57       | 1,006,691      | 200      | 1,007,821      | 87       | 1,008,817      | 80       | 1,010,028      | 257      | 1,011,174      | 377      | 1,012,378      | 187      |
| 1,005,518      | 57       | 1,006,695      | 195      | 1,007,822      | 80       | 1,008,857      | 173      | 1,010,034      | 281      | 1,011,188      | 283      | 1,012,382      | 320      |
| 1,005,532      | 115      | 1,006,713      | 120      | 1,007,834      | 80       | 1,008,862      | 92       | 1,010,041      | 284      | 1,011,189      | 277      | 1,012,393      | 230      |
| 1,005,533      | 195      | 1,006,724      | 85       | 1,007,843      | 181      | 1,008,876      | 241      | 1,010,072      | 276      | 1,011,191      | 282      | 1,012,394      | 230      |
| 1,005,534      | 195      | 1,006,748      | 197      | 1,007,868      | 239      | 1,008,880      | 241      | 1,010,077      | 257      | 1,011,193      | 257      | 1,012,395      | 230      |
| 1,005,536      | 13       | 1,006,749      | 211      | 1,007,890      | 241      | 1,008,897      | 243      | 1,010,100      | 109      | 1,011,195      | 257      | 1,012,396      | 230      |
| 1,005,537      | 13       | 1,006,754      | 89       | 1,007,892      | 241      | 1,008,900      | 224      | 1,010,130      | 377      | 1,011,201      | 188      | 1,012,399      | 186      |
| 1,005,545      | 176      | 1,006,755      | 133      | 1,007,920      | 231      | 1,008,910      | 180      | 1,010,145      | 284      | 1,011,205      | 160      | 1,012,401      | 158      |
| 1,005,598      | 194      | 1,006,757      | 106      | 1,007,975      | 237      | 1,008,911      | 180      | 1,010,223      | 162      | 1,011,211      | 285      | 1,012,430      | 320      |
| 1,005,604      | 203      | 1,006,758      | 106      | 1,007,984      | 242      | 1,008,922      | 374      | 1,010,238      | 262      | 1,011,246      | 344      | 1,012,433      | 319      |
| 1,005,627      | 206      | 1,006,784      | 207      | 1,007,987      | 237      | 1,008,933      | 225      | 1,010,244      | 110      | 1,011,263      | 150      | 1,012,434      | 319      |
| 1,005,630      | 182      | 1,006,824      | 58       | 1,007,988      | 236      | 1,008,943      | 242      | 1,010,265      | 105      | 1,011,273      | 143      | 1,012,435      | 334      |
| 1,005,648      | 204      | 1,006,824      | 58       | 1,008,002      | 224      | 1,008,945      | 376      | 1,010,277      |          | 1,011,279      | 220      | 1,012,440      | 209      |
| 1,005,677      | 175      |                | 207      | 1,008,004      | 237      | 1,008,951      | 87       | 1,010,280      | 282      | 1,011,282      | 219      | 1,012,448      | 158      |
| 1,005,686      | 84       |                | 207      | 1,008,018      | 231      | 1,008,976      | 88       | 1,010,288      | 264      | 1,011,289      | 235      | 1,012,455      | 320      |
| 1,005,710      | 175      | 1,006,863      | 182      | 1,008,021      | 224      | 1,008,994      | 241      | 1,010,316      | 263      | 1,011,307      | 191      | 1,012,460      | 320      |
| 1,005,721      | 204      | 1,006,864      | 182      | 1,008,023      | 241      | 1,008,995      | 180      | 1,010,338      | 109      | 1,011,315      | 186      | 1,012,473      | 319      |
| 1,005,724      | 207      | 1,006,869      | 45       | 1,008,030      | 242      | 1,008,998      | 238      | 1,010,351      | 122      | 1,011,332      | 220      | 1,012,484      | 185      |
| 1,005,731      | 13       | 1,006,873      | 80       | 1,008,065      | 110      | 1,009,011      | 165      | 1,010,365      | 258      | 1,011,353      | 258      | 1,012,554      | 211      |
| 1,005,738      | 170      | 1,006,885      | 57       | 1,008,070      | 241      | 1,009,042      | 237      | 1,010,366      | 282      | 1,011,393      | 263      | 1,012,585      | 186      |
| 1,005,749      | 190      | 1,006,886      | 58       | 1,008,080      | 241      | 1,009,048      | 223      | 1,010,385      | 282      | 1,011,396      | 152      | 1,012,588      | 163      |
| 1,005,753      | 205      | 1,006,914      | 206      | 1,008,090      | 237      | 1,009,060      | 183      | 1,010,391      | 285      | 1,011,399      | 377      | 1,012,590      | 152      |
| 1,005,755      | 176      | 1,006,916      | 177      | 1,008,091      | 237      | 1,009,070      | 122      | 1,010,403      | 282      | 1,011,400      | 331      | 1,012,591      | 159      |
| 1,005,757      | 191      | 1,006,932      | 176      | 1,008,093      | 111      | 1,009,080      | 231      | 1,010,406      | 139      | 1,011,411      | 345      | 1,012,595      | 126      |
| 1,005,759      | 207      | 1,006,961      | 157      | 1,008,099      |          | 1,009,092      | 87       | 1,010,419      | 278      | 1,011,419      | 264      | 1,012,602      | 322      |
| 1,005,765      | 45       | 1,006,962      | 157      |                | 224      | 1,009,133      | 237      | 1,010,422      | 264      | 1,011,421      | 282      | 1,012,603      | 311      |
| 1,005,766      | 45       | 1,006,972      | 176      |                | 111      | 1,009,149      | 242      | 1,010,431      | 283      | 1,011,440      | 264      | 1,012,621      | 326      |
| 1,005,797      | 30       | 1,006,983      | 91       | 1,008,129      | 135      | 1,009,159      | 224      | 1,010,432      | 283      | 1,011,473      | 262      | 1,012,628      | 187      |
| 1,005,797      | 87       | 1,006,995      | 204      | 1,008,130      | 135      | 1,009,162      | 88       | 1,010,433      | 277      | 1,011,477      | 211      | 1,012,637      | 108      |
|                | 170      | 1,007,003      | 197      | 1,008,133      | 181      | 1,009,177      | 230      | 1,010,441      | 268      | 1,011,479      | 200      | 1,012,639      | 187      |
| 1,005,809      | 204      | 1,007,019      | 203      | 1,008,134      | 242      | 1,009,183      | 377      | 1,010,444      | 277      | 1,011,489      | 211      | 1,012,651      | 304      |
| 1,005,810      | 204      | 1,007,020      | 203      | 1,008,152      | 225      | 1,009,184      | 226      | 1,010,446      | 282      | 1,011,495      | 250      | 1,012,667      | 310      |
| 1,005,817      | 176      | 1,007,076      | 193      | 1,008,154      | 89       | 1,009,193      | 92       | 1,010,469      | 140      | 1,011,533      | 277      | 1,012,680      | 331      |
| 1,005,833      | 194      | 1,007,078      | 182      | 1,008,176      | 122      | 1,009,195      | 158      | 1,010,489      | 87       | 1,011,534      | 209      | 1,012,695      | 186      |
| 1,005,848      | 78       | 1,007,080      | 191      | 1,008,180      |          | 1,009,200      | 181      | 1,010,502      | 92       | 1,011,551      | 174      | 1,012,697      | 220      |
| 1,005,850      | 52       | 1,007,088      | 196      | 1,008,181      |          | 1,009,213      | 92       | 1,010,521      | 92       | 1,011,560      | 188      | 1,012,712      | 328      |
| 1,005,866      | 205      | 1,007,094      | 196      | 1,008,188      | 242      | 1,009,217      | 241      | 1,010,564      | 108      | 1,011,563      | 189      | 1,012,718      | 210      |
| 1,005,882      | 205      | 1,007,101      | 91       | 1,008,202      | 237      | 1,009,218      | 241      | 1,010,573      |          | 1,011,568      | 257      | 1,012,734      | 187      |
| 1,005,883      | 177      | 1,007,140      | 175      |                | 80       | 1,009,219      | 110      | 1,010,593      |          | 1,011,587      | 276      | 1,012,744      | 187      |
| 1,005,900      | 80       | 1,007,150      | 183      |                | 231      | 1,009,241      | 230      | 1,010,603      | 88       | 1,011,597      | 230      | 1,012,746      | 139      |
| 1,005,903      | 88       | 1,007,183      | 204      | 1,008,273      | 134      | 1,009,308      | 225      | 1,010,607      | 256      | 1,011,604      | 283      | 1,012,747      | 186      |
| 1,005,916      | 66       | 1,007,197      | 177      | 1,008,300      | 241      | 1,009,324      | 223      | 1,010,613      | 139      | 1,011,640      | 264      | 1,012,762      | 305      |
| 1,005,923      | 185      | 1,007,201      | 91       | 1,008,312      | 184      | 1,009,329      | 111      | 1,010,653      | 258      | 1,011,644      | 257      |                | 324      |
| 1,005,930      | 193      | 1,007,202      | 127      |                | 106      | 1,009,355      | 88       | 1,010,675      | 278      | 1,011,718      | 257      | 1              | 305      |
| 1,005,974      | 87       | 1,007,203      | 122      |                | 143      | 1,009,356      | 86       | 1,010,676      | 278      | 1,011,722      | 187      | 1,012,790      | 172      |
| 1,005,993      | 177      | 1,007,218      | 222      | 1,008,324      | 92       | 1,009,357      | 87       | 1,010,680      | 264      | 1,011,745      | 211      | 1,012,814      | 220      |
| 1,005,999      | 157      | 1,007,219      | 204      | 1,008,329      | 225      | 1,009,358      | 80       | 1,010,690      | 89       | 1,011,761      | 278      | 1,012,815      | 323      |
| 1,006,007      | 39       | 1,007,220      | 176      | 1,008,338      | 135      | 1,009,364      | 236      | 1,010,691      | 87       | 1,011,774      | 191      | 1,012,832      | 318      |
| 1,006,020      | 204      | 1,007,224      | 207      | 1,008,341      | 92       | 1,009,365      | 242      | 1,010,693      | 88       | 1,011,780      | 263      | 1,012,833      | 318      |
| 1,006,033      | 177      | 1,007,231      | 211      | 1,008,361      |          | 1,009,385      | 80       | 1,010,709      | 285      | 1,011,794      | 274      | 1,012,877      | 230      |
| 1,006,035      | 177      | 1,007,240      | 87       |                | 242      | 1,009,388      | 122      | 1,010,718      | 200      | 1,011,795      | 264      | 1,012,883      | 323      |
| 1,006,044      | 9        | 1,007,294      | 200      |                | 224      | 1,009,397      | 180      | 1,010,724      | 270      | 1,011,798      | 186      | 1,012,910      | 304      |
| 1,006,068      | 80       | 1,007,309      | 184      |                | 241      | 1,009,421      | 181      | 1,010,734      | 183      | 1,011,808      | 262      | 1,012,939      | 142      |
| 1,006,074      | 193      | 1,007,316      |          |                | 180      | 1,009,442      | 224      | 1,010,741      | 120      | 1,011,820      | 303      | 1,012,973      | 326      |
| 1,006,088      | 13       | 1,007,317      |          |                | 237      | 1,009,447      | 226      | 1,010,758      | 257      | 1,011,830      | 257      | 1,012,997      | 331      |
| 1,006,112      | 87       | 1,007,318      | 183      |                | 191      | 1,009,465      | 230      | 1,010,771      | 257      | 1,011,832      | 257      | 1,013,017      | 140      |
| 1,006,148      | 192      | 1,007,330      | 176      |                | 144      | 1,009,498      | 122      | 1,010,790      | 283      | 1,011,839      | 257      | 1,013,044      | 219      |
| 1,006,149      | 192      | 1,007,331      | 204      |                | 158      | 1,009,506      | 242      | 1,010,799      | 185      | 1,011,840      | 257      | 1,013,052      | 187      |
| 1,006,154      | 205      | 1,007,333      | 194      |                | 90       | 1,009,548      | 87       | 1,010,808      | 273      | 1,011,860      | 274      | 1,013,054      | 185      |
| 1,006,183      | 194      | 1,007,363      | 178      |                | 90       | 1,009,587      | 182      | 1,010,819      | 88       | 1,011,865      | 152      | 1,013,100      | 328      |
| 1,006,186      | 194      | 1,007,392      | 122      | 1,008,508      | 86       | 1,009,605      | 108      | 1,010,830      | 80       |                | 162      | 1,013,121      | 309      |
| 1,006,188      | 205      | 1,007,424      | 254      | 1,008,512      | 121      | 1,009,606      | 94       | 1,010,846      | 159      |                | 162      | 1,013,122      | 309      |
| 1,006,181      | 194      | 1,007,440      | 92       | 1,008,515      | 143      | 1,009,622      | 374      | 1,010,847      | 150      | 1,011,869      | 219      | 1,013,127      | 322      |
| 1,006,200      | 122      | 1,007,455      | 226      | 1,008,516      | 144      | 1,009,623      | 224      | 1,010,873      | 256      | 1,011,886      | 284      | 1,013,141      | 162      |
| 1,006,206      | 192      | 1,007,481      | 241      | 1,008,528      | 237      | 1,009,631      | 157      | 1,010,874      | 256      | 1,011,907      | 266      | 1,013,145      | 330      |
| 1,006,207      | 117      | 1,007,493      | 116      | 1,008,544      | 157      | 1,009,670      | 243      | 1,010,884      | 283      | 1,011,909      | 264      | 1,013,164      | 377      |
| 1,006,236      | 122      | 1,007,496      | 90       | 1,008,545      | 126      | 1,009,679      | 241      | 1,010,920      | 264      | 1,011,943      | 152      | 1,013,197      | 326      |
| 1,006,276      | 107      | 1,007,497      | 157      | 1,008,550      | 90       | 1,009,680      | 242      | 1,010,948      | 109      | 1,011,955      | 302      |                | 140      |
| 1,006,297      | 203      | 1,007,498      | 87       | 1,008,560      | 124      | 1,009,710      | 153      | 1,010,962      | 80       | 1,012,001      | 208      |                | 319      |
| 1,006,301      | 108      | 1,007,545      | 150      | 1,008,576      | 180      | 1,009,721      | 112      | 1,010,967      | 120      | 1,012,002      | 220      | 1,013,290      | 328      |
| 1,006,314      | 110      | 1,007,548      | 85       | 1,008,590      | 92       | 1,009,721      | 188      | 1,010,975      | 202      | 1,012,008      | 192      | 1,013,300      | 328      |
| 1,006,356      | 184      |                |          | 1,008,599      | 183      | 1,009,746      | 150      | 1,010,979      | 257      | 1,012,009      | 184      | 1,013,328      | 160      |
| 1,006,357      | 108      |                |          | 1,008,601      | 90       | 1,009,784      | 146      | 1,011,003      | 220      | 1,012,017      | 250      | 1,013,329      | 140      |
| 1,006,384      | 106      |                |          | 1,008,606      | 183      | 1,009,786      | 157      | 1,011,004      | 144      | 1,012,037      | 211      | 1,013,332      | 187      |
| 1,006,394      | 78       |                |          | 1,008,611      | 224      | 1,009,787      | 157      | 1,011,023      | 282      | 1,012,044      | 230      | 1,013,340      | 309      |
| 1,006,399      | 60       | 1              |          |                |          |                |          |                |          |                |          |                |          |

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|----------------|---------|----------------|---------|----------------|---------|----------------|---------|----------------|---------|----------------|---------|----------------|---------|
| 1,913,520      | 220     | 1,914,835      | 320     | 1,915,940      | 352     | 1,917,089      | 258     | 1,918,080      | 384     | 1,919,050      | 432     | 1,920,540      | 524     |
| 1,913,538      | 184     | 1,914,843      | 328     | 1,915,949      | 365     | 1,917,112      | 404     | 1,918,153      | 392     | 1,919,604      | 392     | 1,920,541      | 539     |
| 1,913,547      |         | 1,914,862      | 305     | 1,915,952      | 180     | 1,917,176      | 495     | 1,918,159      | 410     | 1,919,675      | 471     | 1,920,550      | 331     |
| 1,913,561      |         | 1,914,870      | 136     | 1,915,953      | 180     | 1,917,179      | 393     | 1,918,162      | 488     | 1,919,676      | 471     | 1,920,587      | 476     |
| 1,913,576      | 380     | 1,914,877      | 320     | 1,915,979      | 213     | 1,917,196      | 488     | 1,918,178      | 328     | 1,919,689      | 430     | 1,920,588      | 476     |
| 1,913,580      |         | 1,914,883      | 331     | 1,915,984      | 308     | 1,917,207      | 428     | 1,918,181      | 397     | 1,919,697      | 404     | 1,920,603      | 505     |
| 1,913,607      | 180     | 1,914,895      | 304     | 1,915,987      | 352     | 1,917,248      | 414     | 1,918,222      | 414     | 1,919,704      | 532     | 1,920,604      | 506     |
| 1,913,615      | 192     | 1,914,902      | 204     | 1,915,989      | 305     | 1,917,253      | 427     | 1,918,224      | 413     | 1,919,714      | 463     | 1,920,619      | 322     |
| 1,913,619      | 183     | 1,914,903      | 204     | 1,915,990      | 366     | 1,917,254      | 427     | 1,918,233      | 204     | 1,919,715      | 403     | 1,920,623      | 483     |
| 1,913,621      | 150     | 1,914,906      | 324     | 1,916,000      | 366     | 1,917,255      | 427     | 1,918,242      | 463     | 1,919,718      | 405     | 1,920,626      | 499     |
| 1,913,647      | 310     | 1,914,921      | 305     | 1,916,001      | 366     | 1,917,256      | 427     | 1,918,251      | 398     | 1,919,721      | 450     | 1,920,632      | 480     |
| 1,913,679      | 157     | 1,914,939      | 332     | 1,916,015      | 367     | 1,917,257      | 427     | 1,918,254      | 566     | 1,919,722      | 462     | 1,920,633      | 505     |
| 1,913,691      | 183     | 1,914,952      | 334     | 1,916,020      | 300     | 1,917,258      | 427     | 1,918,255      | 566     | 1,919,723      | 462     | 1,920,642      | 1       |
| 1,913,748      | 137     | 1,914,953      | 310     | 1,916,054      | 365     | 1,917,259      | 427     | 1,918,270      | 386     | 1,919,725      | 328     | 1,920,649      | 509     |
| 1,913,776      | 210     | 1,914,990      | 327     | 1,916,071      | 354     | 1,917,260      | 427     | 1,918,283      | 490     | 1,919,726      | 465     | 1,920,652      | 327     |
| 1,913,784      | 331     | 1,914,999      | 311     | 1,916,073      | 351     | 1,917,266      | 385     | 1,918,294      | 399     | 1,919,729      | 342     | 1,920,691      | 480     |
| 1,913,791      | 342     | 1,915,018      | 304     | 1,916,087      | 367     | 1,917,271      | 410     | 1,918,312      | 403     | 1,919,732      | 342     | 1,920,699      | 328     |
| 1,913,796      | 319     | 1,915,039      | 137     | 1,916,094      | 360     | 1,917,273      | 427     | 1,918,317      | 285     | 1,919,742      | 476     | 1,920,728      | 501     |
| 1,913,833      | 327     | 1,915,040      | 137     | 1,916,112      | 365     | 1,917,283      | 423     | 1,918,330      | 410     | 1,919,750      | 467     | 1,920,735      | 471     |
| 1,913,846      | 320     | 1,915,048      | 322     | 1,916,114      | 374     | 1,917,285      | 394     | 1,918,343      | 409     | 1,919,766      | 405     | 1,920,736      | 471     |
| 1,913,881      | 604     | 1,915,051      | 324     | 1,916,157      | 363     | 1,917,286      | 394     | 1,918,362      | 488     | 1,919,775      | 503     | 1,920,766      | 305     |
| 1,913,882      | 305     | 1,915,054      | 204     | 1,916,172      | 351     | 1,917,300      | 385     | 1,918,367      | 391     | 1,919,778      | 402     | 1,920,766      | 311     |
| 1,913,884      | 317     | 1,915,062      | 311     | 1,916,178      | 362     | 1,917,320      | 400     | 1,918,403      | 264     | 1,919,792      | 440     | 1,920,773      |         |
| 1,913,885      | 305     | 1,915,064      | 327     | 1,916,196      | 282     | 1,917,338      | 490     | 1,918,454      | 204     | 1,919,806      | 320     | 1,920,880      | 481     |
| 1,913,929      | 328     | 1,915,065      | 327     | 1,916,203      | 271     | 1,917,339      | 488     | 1,918,459      | 270     | 1,919,825      | 440     | 1,920,891      | 490     |
| 1,913,938      | 320     | 1,915,072      | 189     | 1,916,206      | 283     | 1,917,351      | 275     | 1,918,503      | 428     | 1,919,846      | 327     | 1,920,819      | 329     |
| 1,913,943      | 323     | 1,915,077      | 319     | 1,916,226      | 275     | 1,917,370      | 413     | 1,918,545      | 283     | 1,919,858      | 320     | 1,920,820      | 329     |
| 1,913,955      | 305     | 1,915,085      | 322     | 1,916,236      | 275     | 1,917,380      | 398     | 1,918,555      | 385     | 1,919,871      | 440     | 1,920,827      | 489     |
| 1,913,956      | 330     | 1,915,091      | 327     | 1,916,240      | 282     | 1,917,381      | 398     | 1,918,558      | 409     | 1,919,877      | 444     | 1,920,845      | 4       |
| 1,913,960      | 320     | 1,915,108      | 137     | 1,916,273      | 358     | 1,917,384      | 490     | 1,918,560      | 420     | 1,919,878      | 444     | 1,920,857      | 404     |
| 1,913,962      | 320     | 1,915,120      | 319     | 1,916,285      | 371     | 1,917,387      | 459     | 1,918,593      | 567     | 1,919,880      | 444     | 1,920,858      | 505     |
| 1,913,970      | 311     | 1,915,126      | 319     | 1,916,286      | 371     | 1,917,391      | 303     | 1,918,595      | 427     | 1,919,921      | 386     | 1,920,909      | 327     |
| 1,913,985      | 390     | 1,915,148      | 304     | 1,916,287      | 371     | 1,917,398      | 398     | 1,918,599      | 412     | 1,919,923      | 403     | 1,920,910      | 327     |
| 1,913,987      | 192     | 1,915,152      | 319     | 1,916,291      | 488     | 1,917,399      | 398     | 1,918,603      | 412     | 1,919,930      | 329     | 1,920,911      | 504     |
| 1,913,990      | 304     | 1,915,163      | 210     | 1,916,302      | 274     | 1,917,401      | 398     | 1,918,605      | 284     | 1,919,947      | 328     | 1,920,913      | 504     |
| 1,914,012      | 305     | 1,915,169      | 305     | 1,916,303      | 274     | 1,917,405      | 398     | 1,918,607      | 414     | 1,919,962      | 447     | 1,920,921      | 508     |
| 1,914,016      | 305     | 1,915,186      | 331     | 1,916,306      | 487     | 1,917,406      | 429     | 1,918,684      | 451     | 1,919,983      | 327     | 1,920,922      | 490     |
| 1,914,050      | 141     | 1,915,206      | 134     | 1,916,310      | 386     | 1,917,410      | 393     | 1,918,692      | 288     | 1,920,008      | 312     | 1,920,926      | 476     |
| 1,914,073      | 189     | 1,915,212      | 328     | 1,916,327      | 394     | 1,917,413      | 414     | 1,918,702      | 258     | 1,920,009      | 342     | 1,920,934      | 327     |
| 1,914,097      | 332     | 1,915,240      | 222     | 1,916,337      | 432     | 1,917,451      | 414     | 1,918,709      | 532     | 1,920,026      | 312     | 1,920,941      | 490     |
| 1,914,100      | 207     | 1,915,251      | 263     | 1,916,338      | 450     | 1,917,489      | 385     | 1,918,716      | 285     | 1,920,053      | 401     | 1,920,942      | 495     |
| 1,914,102      | 329     | 1,915,260      | 209     | 1,916,348      | 487     | 1,917,505      | 397     | 1,918,717      | 285     | 1,920,090      | 320     | 1,920,947      |         |
| 1,914,114      | 331     | 1,915,270      | 360     | 1,916,363      | 403     | 1,917,519      | 395     | 1,918,731      | 282     | 1,920,125      | 392     | 1,920,949      | 564     |
| 1,914,121      | 389     | 1,915,301      | 210     | 1,916,366      | 411     | 1,917,522      | 411     | 1,918,735      | 274     | 1,920,126      | 385     | 1,920,951      | 489     |
| 1,914,125      | 220     | 1,915,308      | 136     | 1,916,367      | 385     | 1,917,539      | 397     | 1,918,759      |         | 1,920,137      | 443     | 1,920,964      | 329     |
| 1,914,135      | 320     | 1,915,311      | 207     | 1,916,386      | 283     | 1,917,540      | 430     | 1,918,781      | 448     | 1,920,139      | 465     | 1,920,980      | 464     |
| 1,914,163      | 190     | 1,915,315      | 358     | 1,916,395      | 432     | 1,917,545      | 397     | 1,918,804      | 288     | 1,920,140      | 410     |                | 513     |
| 1,914,222      | 304     | 1,915,322      | 363     | 1,916,402      | 385     | 1,917,598      | 428     | 1,918,817      | 283     | 1,920,148      | 330     |                | 501     |
| 1,914,282      | 305     | 1,915,326      | 138     | 1,916,407      | 409     | 1,917,627      | 489     | 1,918,873      | 271     | 1,920,151      | 331     | 1,921,054      |         |
| 1,914,302      | 188     | 1,915,352      | 352     | 1,916,410      | 400     | 1,917,642      | 400     | 1,918,900      | 294     | 1,920,160      | 464     | 1,921,060      | 328     |
| 1,914,311      | 136     | 1,915,354      | 136     | 1,916,417      | 404     | 1,917,643      | 387     | 1,918,914      | 434     | 1,920,190      | 481     | 1,921,065      | 331     |
| 1,914,337      | 360     | 1,915,360      | 262     | 1,916,423      | 371     | 1,917,646      | 398     | 1,918,920      | 429     | 1,920,191      | 481     | 1,921,076      | 402     |
| 1,914,338      | 220     | 1,915,364      | 203     | 1,916,434      | 410     | 1,917,648      | 310     | 1,918,923      | 274     | 1,920,202      | 311     | 1,921,084      | 321     |
| 1,914,341      | 218     | 1,915,386      | 366     | 1,916,437      | 440     | 1,917,657      | 320     | 1,918,926      | 487     | 1,920,211      | 328     | 1,921,089      | 329     |
| 1,914,351      | 210     | 1,915,388      | 137     | 1,916,438      | 440     | 1,917,660      | 393     | 1,918,957      | 273     | 1,920,231      | 445     | 1,921,114      | 481     |
| 1,914,354      | 330     | 1,915,391      | 365     | 1,916,441      | 440     | 1,917,681      | 428     | 1,918,967      | 393     | 1,920,233      | 320     | 1,921,116      | 490     |
| 1,914,367      | 328     | 1,915,393      | 390     | 1,916,457      | 401     | 1,917,692      | 451     | 1,918,980      | 433     | 1,920,234      | 320     | 1,921,120      | 492     |
| 1,914,403      | 304     | 1,915,397      | 351     | 1,916,468      | 427     | 1,917,693      | 451     | 1,918,996      | 414     | 1,920,239      | 404     | 1,921,124      | 474     |
| 1,914,422      | 331     | 1,915,400      | 366     | 1,916,473      | 435     | 1,917,699      | 433     | 1,918,997      | 394     | 1,920,244      | 326     | 1,921,128      | 505     |
| 1,914,458      | 320     | 1,915,425      | 360     | 1,916,474      | 450     | 1,917,704      | 434     | 1,919,000      | 283     | 1,920,217      | 440     | 1,921,137      | 483     |
| 1,914,478      | 210     | 1,915,428      | 360     | 1,916,496      | 283     | 1,917,710      | 384     | 1,919,002      | 270     | 1,920,248      | 440     | 1,921,157      | 491     |
| 1,914,480      | 188     | 1,915,436      | 352     | 1,916,503      | 283     | 1,917,717      | 401     | 1,919,005      | 273     | 1,920,249      | 320     | 1,921,158      | 518     |
| 1,914,494      | 304     | 1,915,464      | 342     | 1,916,539      | 487     | 1,917,718      | 384     | 1,919,023      | 394     | 1,920,254      | 477     | 1,921,166      | 481     |
| 1,914,509      | 135     | 1,915,468      | 305     | 1,916,551      | 392     | 1,917,723      | 327     | 1,919,025      | 427     | 1,920,255      |         | 1,921,180      | 328     |
|                | 217     | 1,915,469      | 365     | 1,916,590      | 432     | 1,917,734      | 412     | 1,919,029      | 433     | 1,920,262      | 320     | 1,921,195      | 329     |
|                | 211     | 1,915,470      | 351     | 1,916,586      | 285     | 1,917,749      | 394     | 1,919,036      | 576     | 1,920,267      | 506     | 1,921,212      | 320     |
| 1,914,520      | 317     | 1,915,473      | 366     | 1,916,589      | 387     | 1,917,754      | 394     | 1,919,037      | 404     | 1,920,270      | 400     | 1,921,280      | 490     |
| 1,914,527      | 190     | 1,915,520      | 380     | 1,916,602      | 458     | 1,917,762      | 321     | 1,919,037      | 410     | 1,920,280      | 498     | 1,921,292      | 464     |
| 1,914,530      | 382     | 1,915,540      | 360     | 1,916,604      | 394     | 1,917,804      | 394     | 1,919,054      | 428     | 1,920,293      | 509     | 1,921,293      | 464     |
| 1,914,532      | 326     | 1,915,544      | 211     | 1,916,605      | 358     | 1,917,807      | 432     | 1,919,057      | 385     | 1,920,297      | 511     | 1,921,296      | 433     |
| 1,914,536      | 142     | 1,915,567      | 354     | 1,916,657      | 394     | 1,917,815      | 414     | 1,919,135      | 394     | 1,920,300      | 404     | 1,921,297      | 505     |
| 1,914,540      | 138     | 1,915,568      | 368     | 1,916,677      | 281     | 1,917,818      | 433     | 1,919,136      | 276     | 1,920,311      | 551     | 1,921,299      |         |
| 1,914,556      | 136     | 1,915,584      | 352     | 1,916,710      | 404     | 1,917,819      | 385     | 1,919,141      | 449     | 1,920,327      | 504     | 1,921,300      | 566     |
| 1,914,557      | 274     | 1,915,591      | 368     | 1,916,724      | 433     | 1,917,822      | 394     | 1,919,145      | 423     | 1,920,331      | 440     | 1,921,306      | 506     |
| 1,914,558      | 274     | 1,915,592      | 354     | 1,916,735      | 264     | 1,917,823      | 394     | 1,919,157      | 488     | 1,920,333      | 320     | 1,921,309      | 482     |
| 1,914,563      | 210     | 1,916,003      | 363     | 1,916,765      | 432     | 1,917,835      |         | 1,919,158      | 514     | 1,920,352      | 488     | 1,921,324      | 501     |
| 1,914,574      | 304     | 1,916,018      | 360     | 1,916,780      | 282     | 1,917,841      | 386     | 1,919,167      | 403     | 1,920,358      | 501     | 1,921,326      | 464     |
| 1,914,577      |         |                |         |                |         |                |         |                |         |                |         |                |         |

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|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|
| 1,921,563      | 402      | 1,922,743      | 547      | 1,923,845      | 401      | 1,924,747      | 435      | 1,925,600      | 540      | 1,926,540      | 711      | 1,927,529      | 565      |
| 1,921,564      | 402      | 1,922,813      | 536      | 1,923,848      | 477      | 1,924,748      | 452      | 1,925,604      | 552      | 1,926,543      | 541      | 1,927,530      | 637      |
| 1,921,582      | 404      | 1,922,816      | 451      | 1,923,865      | 480      | 1,924,752      | 452      | 1,925,584      | 502      | 1,926,544      | 527      | 1,927,541      | 622      |
| 1,921,587      | 402      | 1,922,827      | 480      | 1,923,866      |          | 1,924,762      | 534      | 1,925,500      | 018      | 1,926,545      | 544      | 1,927,602      | 580      |
| 1,921,635      | 406      | 1,922,830      | 483      |                | 450      | 1,924,763      | 534      | 1,925,002      | 017      | 1,926,546      | 538      | 1,927,604      | 575      |
| 1,921,668      | 450      | 1,922,832      | 498      | 1,923,888      | 482      | 1,924,764      | 534      | 1,925,010      | 540      | 1,926,567      | 700      | 1,927,620      | 560      |
| 1,921,689      | 482      | 1,922,844      | 481      | 1,923,895      | 482      | 1,924,765      | 534      | 1,925,043      | 482      | 1,926,573      | 630      | 1,927,626      | 584      |
| 1,921,692      | 487      | 1,922,847      | 400      | 1,923,900      | 408      | 1,924,766      | 534      | 1,925,044      | 498      | 1,926,573      | 544      | 1,927,633      | 679      |
| 1,921,705      | 402      | 1,922,853      | 400      | 1,923,918      | 014      | 1,924,767      | 534      | 1,925,045      | 498      | 1,926,587      | 540      | 1,927,634      | 679      |
| 1,921,711      | 505      | 1,922,872      | 440      | 1,923,938      | 534      | 1,924,768      | 534      | 1,925,072      | 543      | 1,926,590      | 609      | 1,927,652      | 609      |
| 1,921,717      | 402      | 1,922,893      | 500      | 1,923,941      | 500      | 1,924,769      | 534      | 1,925,079      | 558      | 1,926,614      | 539      | 1,927,658      | 626      |
| 1,921,726      | 482      | 1,922,902      | 451      | 1,923,942      | 500      | 1,924,788      | 433      | 1,925,687      | 506      | 1,926,618      | 539      | 1,927,660      | 576      |
| 1,921,726      | 505      | 1,922,903      | 538      | 1,923,948      | 458      | 1,924,793      | 590      | 1,925,688      | 506      | 1,926,626      | 539      | 1,927,661      | 587      |
| 1,921,727      | 402      | 1,922,909      | 518      | 1,923,955      | 458      | 1,924,804      | 543      | 1,925,701      | 508      | 1,926,630      | 541      | 1,927,662      | 585      |
| 1,921,738      | 445      | 1,922,910      | 538      | 1,923,957      | 503      | 1,924,805      | 536      | 1,925,707      | 548      | 1,926,638      | 710      | 1,927,663      | 577      |
| 1,921,750      | 482      | 1,922,919      | 525      | 1,924,021      | 483      | 1,924,813      | 532      | 1,925,722      | 570      | 1,926,648      | 708      | 1,927,671      | 585      |
| 1,921,751      | 400      | 1,922,930      | 546      | 1,924,043      | 458      | 1,924,815      | 570      | 1,925,732      | 532      | 1,926,653      | 540      | 1,927,726      | 577      |
| 1,921,760      | 409      | 1,922,975      | 459      | 1,924,047      | 454      | 1,924,819      | 603      | 1,925,740      | 501      | 1,926,665      | 708      | 1,927,772      | 586      |
| 1,921,767      | 402      | 1,922,982      | 557      | 1,924,052      | 535      | 1,924,820      | 614      | 1,925,760      | 506      | 1,926,670      | 710      | 1,927,773      | 586      |
| 1,921,773      | 401      | 1,923,003      | 500      | 1,924,059      | 603      | 1,924,840      | 435      | 1,925,784      | 018      | 1,926,677      | 710      | 1,927,792      | 587      |
| 1,921,776      | 401      | 1,923,004      | 518      | 1,924,065      | 451      | 1,924,850      | 614      | 1,925,795      | 617      | 1,926,685      | 500      | 1,927,805      | 652      |
| 1,921,780      | 397      | 1,923,021      | 482      | 1,924,080      | 481      | 1,924,860      | 670      | 1,925,799      | 498      | 1,926,691      | 710      | 1,927,812      | 587      |
| 1,921,806      | 481      | 1,923,043      | 657      | 1,924,097      | 450      | 1,924,861      | 568      | 1,925,801      | 018      | 1,926,699      | 629      | 1,927,813      | 696      |
| 1,921,820      | 409      | 1,923,044      | 409      | 1,924,099      | 458      | 1,924,870      | 567      | 1,925,802      | 617      | 1,926,714      | 679      | 1,927,814      | 606      |
| 1,921,866      | 441      | 1,923,051      | 508      | 1,924,107      | 518      | 1,924,872      | 576      | 1,925,819      | 641      | 1,926,715      | 748      | 1,927,819      | 680      |
| 1,921,898      | 459      | 1,923,055      | 556      | 1,924,126      | 498      | 1,924,874      | 453      | 1,925,820      | 400      | 1,926,730      | 688      | 1,927,823      | 567      |
| 1,921,914      | 481      | 1,923,056      | 556      | 1,924,127      | 498      | 1,924,876      | 452      | 1,925,824      | 528      | 1,926,740      | 688      | 1,927,829      | 790      |
| 1,921,926      | 496      | 1,923,057      | 556      | 1,924,129      | 498      | 1,924,890      | 557      | 1,925,843      | 670      | 1,926,744      | 540      | 1,927,830      | 579      |
| 1,921,934      | 457      | 1,923,058      | 458      | 1,924,136      | 506      | 1,924,911      | 500      | 1,925,855      | 504      | 1,926,758      | 540      | 1,927,832      | 605      |
| 1,921,948      | 464      | 1,923,076      | 504      | 1,924,137      | 498      | 1,924,912      | 005      | 1,925,857      | 508      | 1,926,760      | 501      | 1,927,842      | 601      |
| 1,921,966      | 404      | 1,923,084      | 497      | 1,924,151      | 500      | 1,924,919      | 501      | 1,925,875      | 558      | 1,926,770      | 679      | 1,927,853      | 791      |
| 1,921,991      | 471      | 1,923,135      | 490      | 1,924,153      | 505      | 1,924,923      | 503      | 1,925,877      | 554      | 1,926,772      | 527      | 1,927,867      | 635      |
| 1,921,993      | 504      | 1,923,101      | 013      | 1,924,160      | 530      | 1,924,924      | 503      | 1,925,879      | 548      | 1,926,780      | 591      | 1,927,870      | 633      |
| 1,922,005      | 410      | 1,923,213      | 013      | 1,924,168      | 506      | 1,924,934      | 547      | 1,925,905      | 558      | 1,926,797      | 701      | 1,927,882      | 500      |
| 1,922,006      | 492      | 1,923,215      | 594      | 1,924,169      | 528      | 1,924,936      | 432      | 1,925,910      | 507      | 1,926,811      | 544      | 1,927,883      | 751      |
| 1,922,007      | 404      | 1,923,221      | 500      | 1,924,170      | 512      | 1,924,947      | 556      | 1,925,914      | 070      | 1,926,813      | 539      | 1,927,912      | 679      |
| 1,922,018      | 505      | 1,923,238      | 526      | 1,924,178      | 451      | 1,924,954      | 451      | 1,925,910      | 505      | 1,926,837      | 711      | 1,927,916      | 601      |
| 1,922,034      | 410      | 1,923,256      | 450      | 1,924,180      | 430      | 1,924,961      | 546      | 1,925,935      | 591      | 1,926,840      | 544      | 1,927,927      | 689      |
| 1,922,037      | 459      | 1,923,258      | 482      | 1,924,181      | 454      | 1,924,967      | 005      | 1,925,940      | 543      | 1,926,853      | 544      | 1,927,929      | 638      |
| 1,922,038      | 457      | 1,923,280      | 457      | 1,924,185      | 663      | 1,924,969      | 435      | 1,925,941      | 543      | 1,926,854      | 544      | 1,927,930      | 575      |
| 1,922,083      | 500      | 1,923,280      | 791      | 1,924,194      | 663      | 1,924,972      | 558      | 1,925,942      | 543      | 1,926,855      | 544      | 1,927,945      | 632      |
| 1,922,096      | 554      | 1,923,292      | 538      | 1,924,196      | 666      | 1,924,990      | 556      | 1,925,978      | 506      | 1,926,867      | 775      | 1,927,963      | 575      |
| 1,922,103      | 401      | 1,923,313      | 439      | 1,924,198      | 663      | 1,924,992      | 435      | 1,925,985      | 074      | 1,926,873      | 710      | 1,927,968      | 564      |
| 1,922,123      | 557      | 1,923,321      | 547      | 1,924,201      | 400      | 1,925,005      | 613      | 1,926,002      | 570      | 1,926,874      | 701      | 1,927,986      | 680      |
| 1,922,143      | 554      | 1,923,324      | 450      | 1,924,206      | 489      | 1,925,028      | 559      | 1,926,013      | 580      | 1,926,884      | 587      | 1,927,988      | 598      |
| 1,922,153      | 535      | 1,923,327      | 477      | 1,924,211      | 491      | 1,925,029      | 670      | 1,926,014      | 617      | 1,926,907      | 528      | 1,928,004      | 500      |
| 1,922,154      | 400      | 1,923,331      | 483      | 1,924,214      | 548      | 1,925,048      | 441      | 1,926,015      | 617      | 1,926,923      | 004      | 1,928,008      | 575      |
| 1,922,160      | 538      | 1,923,302      | 463      | 1,924,218      | 432      | 1,925,049      | 435      | 1,926,025      | 586      | 1,926,920      | 051      | 1,928,020      | 651      |
| 1,922,186      | 401      | 1,923,370      | 501      | 1,924,267      | 452      | 1,925,058      | 452      | 1,926,028      | 060      | 1,926,930      | 527      | 1,928,031      | 622      |
| 1,922,187      | 430      | 1,923,375      | 506      | 1,924,281      | 439      | 1,925,063      | 534      | 1,926,032      | 543      | 1,926,943      | 548      | 1,928,045      | 622      |
| 1,922,205      | 535      | 1,923,406      | 400      | 1,924,296      | 605      | 1,925,065      | 453      | 1,926,039      | 709      | 1,926,952      | 781      | 1,928,053      | 585      |
| 1,922,206      | 535      | 1,923,407      | 450      | 1,924,300      | 509      | 1,925,075      | 544      | 1,926,043      | 543      | 1,926,961      | 567      | 1,928,054      | 585      |
| 1,922,207      | 535      | 1,923,419      | 535      | 1,924,311      | 461      | 1,925,076      | 544      | 1,926,044      | 543      | 1,926,970      | 528      | 1,928,080      | 560      |
| 1,922,221      | 509      | 1,923,420      | 481      | 1,924,313      | 535      | 1,925,085      | 499      | 1,926,045      | 540      | 1,926,982      | 669      | 1,928,099      | 577      |
| 1,922,224      | 482      | 1,923,421      | 525      | 1,924,344      | 543      | 1,925,088      | 505      | 1,926,055      | 700      | 1,927,013      | 674      | 1,928,105      | 670      |
| 1,922,240      | 556      | 1,923,427      | 554      | 1,924,361      | 570      | 1,925,093      | 002      | 1,926,056      | 700      | 1,927,014      | 574      | 1,928,123      | 575      |
| 1,922,244      | 401      | 1,923,454      | 482      | 1,924,368      | 401      | 1,925,097      | 570      | 1,926,057      | 544      | 1,927,022      | 570      | 1,928,128      | 704      |
| 1,922,254      | 410      | 1,923,464      | 450      | 1,924,384      | 507      | 1,925,110      | 543      | 1,926,058      | 708      | 1,927,027      | 560      | 1,928,132      | 750      |
| 1,922,262      | 538      | 1,923,489      | 443      | 1,924,396      | 501      | 1,925,121      | 528      | 1,926,059      | 700      | 1,927,047      | 622      | 1,928,135      | 856      |
| 1,922,272      | 546      | 1,923,495      | 538      | 1,924,401      | 436      | 1,925,130      | 532      | 1,926,071      | 532      | 1,927,052      | 633      | 1,928,140      | 632      |
| 1,922,274      | 458      | 1,923,502      | 460      | 1,924,410      | 507      | 1,925,132      | 531      | 1,926,072      | 539      | 1,927,053      | 751      | 1,928,163      | 702      |
| 1,922,278      | 574      | 1,923,528      | 506      | 1,924,439      | 507      | 1,925,142      | 528      | 1,926,073      | 530      | 1,927,057      | 792      | 1,928,192      | 622      |
| 1,922,280      | 574      | 1,923,534      | 482      | 1,924,453      | 498      | 1,925,151      | 603      | 1,926,080      | 701      | 1,927,066      | 639      | 1,928,204      | 605      |
| 1,922,301      | 409      | 1,923,540      | 614      | 1,924,457      | 487      | 1,925,159      | 603      | 1,926,086      | 670      | 1,927,068      | 789      | 1,928,205      | 605      |
| 1,922,312      | 508      | 1,923,541      | 614      | 1,924,464      | 605      | 1,925,162      | 569      | 1,926,090      | 544      | 1,927,074      | 701      | 1,928,206      | 605      |
| 1,922,313      | 481      | 1,923,594      | 498      | 1,924,465      | 605      | 1,925,182      | 505      | 1,926,106      | 712      | 1,927,086      | 580      | 1,928,207      | 605      |
| 1,922,316      | 482      | 1,923,598      | 482      | 1,924,468      | 439      | 1,925,204      | 663      | 1,926,115      | 528      | 1,927,116      | 586      | 1,928,208      | 605      |
| 1,922,325      | 622      | 1,923,599      | 482      | 1,924,503      | 498      | 1,925,206      | 571      | 1,926,116      | 528      | 1,927,123      | 700      | 1,928,214      | 565      |
| 1,922,328      | 402      | 1,923,610      | 533      | 1,924,507      | 496      | 1,925,214      | 676      | 1,926,132      | 544      | 1,927,143      | 638      | 1,928,225      | 561      |
| 1,922,342      | 547      | 1,923,618      | 530      | 1,924,514      | 501      | 1,925,225      | 500      | 1,926,148      | 540      | 1,927,147      | 789      | 1,928,220      | 602      |
| 1,922,366      | 538      | 1,923,622      | 538      | 1,924,518      | 599      | 1,925,232      | 775      | 1,926,170      | 708      | 1,927,148      | 600      | 1,928,240      | 750      |
| 1,922,387      | 409      | 1,923,630      | 533      | 1,924,519      | 450      | 1,925,247      | 543      | 1,926,188      | 532      | 1,927,166      | 600      | 1,928,246      | 645      |
| 1,922,390      | 409      | 1,923,631      | 538      | 1,924,520      | 434      | 1,925,254      | 533      | 1,926,189      | 534      | 1,927,175      | 673      | 1,928,250      | 638      |
| 1,922,391      | 390      | 1,923,641      | 447      | 1,924,524      | 545      | 1,925,262      | 507      | 1,926,191      | 527      | 1,927,182      | 790      | 1,928,264      | 580      |
| 1,922,402      | 505      | 1,923,642      | 450      | 1,924,536      | 433      | 1,925,305      | 505      | 1,926,213      | 644      | 1,927,185      | 587      | 1,928,266      | 575      |
| 1,922,416      | 387      | 1,923,656      | 481      | 1,924,543      | 508      | 1,925,321      | 618      | 1,926,226      | 604      | 1,927,207      | 600      | 1,928,282      | 789      |
| 1,922,429      | 410      | 1,923,659      | 481      | 1,924,573      | 571      | 1,925,326      | 603      | 1,926,         |          |                |          |                |          |



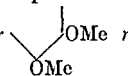
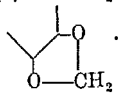
| No. of Patent. | Page. B. | No. of Patent. | Page. B. | No. of Patent. | Page. B. | No. of Patent. | Page. B. | No. of Patent. | Page. B. | No. of Patent. | Page. B. | No. of Patent. | Page. B. |
|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|
| 1,028,510      | 574      | 1,029,091      | 049      | 1,030,808      | 057      | 1,031,968      | 086      | 1,032,857      | 801      | 1,033,815      | 706      | 1,034,860      | 820      |
| 1,028,595      | 564      | 1,029,705      | 572      | 1,030,848      | 059      | 1,031,904      | 087      | 1,032,858      | 801      | 1,033,819      | 703      | 1,034,875      | 706      |
| 1,028,698      | 578      | 1,029,710      | 599      | 1,030,861      | 058      | 1,031,972      | 821      | 1,032,859      | 801      | 1,033,822      | 773      | 1,034,890      | 700      |
| 1,028,698      | 504      | 1,029,713      | 032      | 1,030,860      | 058      | 1,031,974      | 034      | 1,032,860      | 801      | 1,033,824      | 813      | 1,034,923      | 724      |
| 1,028,698      | 565      | 1,029,732      | 089      | 1,030,873      | 088      | 1,032,015      | 032      | 1,032,861      | 801      | 1,033,826      | 805      | 1,034,930      | 703      |
| 1,028,698      | 565      | 1,029,735      | 049      | 1,030,875      | 064      | 1,032,025      | 033      | 1,032,862      | 801      | 1,033,827      | 805      | 1,034,941      | 082      |
| 1,028,613      | 084      | 1,029,786      | 051      | 1,030,879      | 056      | 1,032,032      | 032      | 1,032,863      | 801      | 1,033,828      | 790      | 1,034,943      | 767      |
| 1,028,641      | 033      | 1,029,812      | 587      | 1,030,919      | 584      | 1,032,050      | 702      | 1,032,864      | 801      | 1,033,829      | 790      | 1,034,956      | 880      |
| 1,028,670      | 000      | 1,029,821      | 750      | 1,030,923      | 874      | 1,032,067      | 082      | 1,032,865      | 801      | 1,033,830      | 999      | 1,034,957      | 790      |
| 1,028,702      | 009      | 1,029,870      | 751      | 1,030,948      | 057      | 1,032,087      | 072      | 1,032,866      | 801      | 1,033,851      | 724      | 1,034,977      | 781      |
| 1,028,706      | 009      | 1,029,880      | 008      | 1,030,956      | 585      | 1,032,089      | 057      | 1,032,867      | 801      | 1,033,868      | 750      | 1,034,980      | 777      |
| 1,028,713      | 591      | 1,029,881      | 008      | 1,030,990      | 085      | 1,032,104      | 074      | 1,032,868      | 801      | 1,033,900      | 766      | 1,035,042      | 803      |
| 1,028,727      | 032      | 1,029,895      | 585      | 1,031,000      | 058      | 1,032,120      | 028      | 1,032,869      | 801      | 1,033,939      | 875      | 1,035,053      | 804      |
| 1,028,728      | 008      | 1,029,902      | 575      | 1,031,002      | 087      | 1,032,183      | 051      | 1,032,870      | 801      | 1,033,975      | 874      | 1,035,054      | 793      |
| 1,028,747      | 585      | 1,029,909      | 080      | 1,031,014      | 872      | 1,032,202      | 074      | 1,032,871      | 801      | 1,034,005      | 771      | 1,035,067      | 821      |
| 1,028,749      | 574      | 1,029,910      | 587      | 1,031,021      | 876      | 1,032,247      | 056      | 1,032,872      | 801      | 1,034,023      | 821      | 1,035,117      | 705      |
| 1,028,771      | 561      | 1,029,927      | 008      | 1,031,049      | 877      | 1,032,248      | 085      | 1,032,873      | 801      | 1,034,028      | 821      | 1,035,129      | 795      |
| 1,028,773      | 040      | 1,029,933      | 750      | 1,031,057      | 874      | 1,032,252      | 032      | 1,032,885      | 754      | 1,034,029      | 822      | 1,035,136      | 705      |
| 1,028,780      | 004      | 1,029,934      | 750      | 1,031,059      | 870      | 1,032,255      | 038      | 1,032,886      | 732      | 1,034,031      | 748      | 1,035,160      | 790      |
| 1,028,781      | 700      | 1,029,942      | 576      | 1,031,072      | 747      | 1,032,306      | 070      | 1,032,903      | 059      | 1,034,032      | 805      | 1,035,161      | 700      |
| 1,028,784      | 746      | 1,029,950      | 751      | 1,031,077      | 874      | 1,032,307      | 070      | 1,032,904      | 668      | 1,034,033      | 876      | 1,035,162      | 790      |
| 1,028,805      | 622      | 1,029,953      | 628      | 1,031,108      | 880      | 1,032,308      | 070      | 1,032,912      | 059      | 1,034,034      | 773      | 1,035,165      | 850      |
| 1,028,822      | 009      | 1,029,955      | 749      | 1,031,109      | 584      | 1,032,309      | 070      | 1,032,927      | 064      | 1,034,037      | 749      | 1,035,170      | 767      |
| 1,028,832      | 749      | 1,030,010      | 632      | 1,031,110      | 070      | 1,032,354      | 007      | 1,032,939      | 071      | 1,034,038      | 774      | 1,035,177      | 757      |
| 1,028,840      | 751      | 1,030,051      | 040      | 1,031,112      | 748      | 1,032,355      | 007      | 1,032,950      | 050      | 1,034,043      | 749      | 1,035,178      | 757      |
| 1,028,881      | 046      | 1,030,054      | 751      | 1,031,123      | 874      | 1,032,364      | 072      | 1,032,954      | 058      | 1,034,055      | 748      | 1,035,183      | 705      |
| 1,028,887      | 008      | 1,030,069      | 038      | 1,031,134      | 079      | 1,032,381      | 791      | 1,032,956      | 069      | 1,034,057      | 853      | 1,035,188      | 757      |
| 1,028,894      | 009      | 1,030,088      | 682      | 1,031,144      | 584      | 1,032,405      | 082      | 1,032,971      | 075      | 1,034,062      | 748      | 1,035,189      | 881      |
| 1,028,903      | 049      | 1,030,089      | 682      | 1,031,193      | 057      | 1,032,413      | 072      | 1,032,996      | 658      | 1,034,063      | 749      | 1,035,190      | 705      |
| 1,028,904      | 008      | 1,030,091      | 084      | 1,031,194      | 057      | 1,032,415      | 057      | 1,033,033      | 873      | 1,034,068      | 749      | 1,035,196      | 881      |
| 1,028,912      | 608      | 1,030,110      | 082      | 1,031,220      | 576      | 1,032,434      | 072      | 1,033,017      | 754      | 1,034,076      | 822      | 1,035,213      | 773      |
| 1,028,956      | 010      | 1,030,119      | 032      | 1,031,226      | 686      | 1,032,454      | 081      | 1,033,026      | 090      | 1,034,093      | 748      | 1,035,219      | 934      |
| 1,028,968      | 045      | 1,030,124      | 746      | 1,031,239      | 069      | 1,032,457      | 068      | 1,033,040      | 731      | 1,034,161      | 873      | 1,035,208      | 821      |
| 1,028,988      | 039      | 1,030,125      | 073      | 1,031,240      | 072      | 1,032,467      | 075      | 1,033,064      | 874      | 1,034,171      | 875      | 1,035,319      | 718      |
| 1,029,002      | 599      | 1,030,128      | 009      | 1,031,245      | 715      | 1,032,490      | 081      | 1,033,067      | 072      | 1,034,216      | 875      | 1,035,320      | 821      |
| 1,029,013      | 594      | 1,030,129      | 750      | 1,031,248      | 853      | 1,032,502      | 075      | 1,033,077      | 057      | 1,034,221      | 876      | 1,035,344      | 704      |
| 1,029,014      | 576      | 1,030,130      | 747      | 1,031,251      | 584      | 1,032,507      | 822      | 1,033,091      | 072      | 1,034,234      | 798      | 1,035,362      | 759      |
| 1,029,085      | 651      | 1,030,133      | 069      | 1,031,257      | 878      | 1,032,518      | 873      | 1,033,107      | 790      | 1,034,242      | 822      | 1,035,381      | 756      |
| 1,029,113      | 625      | 1,030,134      | 068      | 1,031,264      | 878      | 1,032,525      | 822      | 1,033,119      | 058      | 1,034,261      | 805      | 1,035,383      | 768      |
| 1,029,115      | 037      | 1,030,135      | 068      | 1,031,265      | 876      | 1,032,531      | 080      | 1,033,124      | 086      | 1,034,263      | 759      | 1,035,395      | 767      |
| 1,029,121      | 575      | 1,030,136      | 068      | 1,031,266      | 069      | 1,032,535      | 063      | 1,033,160      | 050      | 1,034,267      | 1057     | 1,035,411      | 805      |
| 1,029,145      | 622      | 1,030,140      | 701      | 1,031,285      | 585      | 1,032,553      | 080      | 1,033,179      | 080      | 1,034,281      | 767      | 1,035,418      | 720      |
| 1,029,172      | 626      | 1,030,141      | 652      | 1,031,296      | 599      | 1,032,560      | 070      | 1,033,193      | 080      | 1,034,294      | 757      | 1,035,460      | 798      |
| 1,029,179      | 054      | 1,030,142      | 754      | 1,031,299      | 587      | 1,032,562      | 088      | 1,033,204      | 714      | 1,034,304      | 704      | 1,035,495      | 814      |
| 1,029,180      | 749      | 1,030,143      | 702      | 1,031,309      | 088      | 1,032,617      | 754      | 1,033,205      | 085      | 1,034,305      | 757      | 1,035,497      | 813      |
| 1,029,205      | 622      | 1,030,146      | 751      | 1,031,325      | 777      | 1,032,624      | 089      | 1,033,215      | 873      | 1,034,309      | 872      | 1,035,506      | 705      |
| 1,029,225      | 086      | 1,030,158      | 080      | 1,031,347      | 702      | 1,032,632      | 089      | 1,033,217      | 873      | 1,034,313      | 705      | 1,035,515      | 874      |
| 1,029,246      | 600      | 1,030,169      | 684      | 1,031,355      | 067      | 1,032,648      | 822      | 1,033,227      | 754      | 1,034,315      | 822      | 1,035,520      | 760      |
| 1,029,252      | 679      | 1,030,185      | 700      | 1,031,364      | 575      | 1,032,653      | 874      | 1,033,228      | 754      | 1,034,324      | 873      | 1,035,520      | 953      |
| 1,029,254      | 004      | 1,030,205      | 071      | 1,031,367      | 599      | 1,032,658      | 080      | 1,033,236      | 876      | 1,034,361      | 874      | 1,035,554      | 875      |
| 1,029,290      | 701      | 1,030,209      | 000      | 1,031,368      | 086      | 1,032,661      | 087      | 1,033,271      | 061      | 1,034,383      | 718      | 1,035,575      | 756      |
| 1,029,308      | 723      | 1,030,216      | 748      | 1,031,380      | 576      | 1,032,664      | 079      | 1,033,301      | 675      | 1,034,410      | 704      | 1,035,577      | 806      |
| 1,029,340      | 632      | 1,030,247      | 626      | 1,031,381      | 576      | 1,032,674      | 072      | 1,033,302      | 070      | 1,034,413      | 795      | 1,035,579      | 796      |
| 1,029,349      | 625      | 1,030,248      | 615      | 1,031,394      | 088      | 1,032,678      | 707      | 1,033,319      | 081      | 1,034,414      | 720      | 1,035,580      | 796      |
| 1,029,350      | 610      | 1,030,249      | 615      | 1,031,395      | 005      | 1,032,688      | 086      | 1,033,375      | 875      | 1,034,419      | 717      | 1,035,596      | 811      |
| 1,029,352      | 578      | 1,030,271      | 072      | 1,031,396      | 088      | 1,032,712      | 058      | 1,033,390      | 080      | 1,034,433      | 873      | 1,035,599      | 812      |
| 1,029,356      | 079      | 1,030,274      | 693      | 1,031,398      | 082      | 1,032,713      | 081      | 1,033,401      | 680      | 1,034,440      | 766      | 1,035,608      | 845      |
| 1,029,357      | 587      | 1,030,323      | 608      | 1,031,485      | 085      | 1,032,715      | 082      | 1,033,414      | 658      | 1,034,450      | 796      | 1,035,620      | 848      |
| 1,029,395      | 008      | 1,030,331      | 681      | 1,031,490      | 057      | 1,032,722      | 702      | 1,033,437      | 074      | 1,034,451      | 813      | 1,035,630      | 846      |
| 1,029,398      | 070      | 1,030,337      | 681      | 1,031,499      | 080      | 1,032,726      | 064      | 1,033,445      | 720      | 1,034,472      | 717      | 1,035,637      | 795      |
| 1,029,381      | 751      | 1,030,340      | 074      | 1,031,508      | 754      | 1,032,734      | 715      | 1,033,466      | 754      | 1,034,474      | 717      | 1,035,642      | 705      |
| 1,029,392      | 079      | 1,030,341      | 632      | 1,031,518      | 715      | 1,032,751      | 714      | 1,033,490      | 080      | 1,034,477      | 723      | 1,035,648      | 793      |
| 1,029,394      | 571      | 1,030,350      | 750      | 1,031,529      | 587      | 1,032,755      | 904      | 1,033,505      | 872      | 1,034,480      | 723      | 1,035,658      | 793      |
| 1,029,399      | 749      | 1,030,370      | 032      | 1,031,533      | 057      | 1,032,769      | 731      | 1,033,520      | 079      | 1,034,485      | 873      | 1,035,661      | 800      |
| 1,029,410      | 008      | 1,030,377      | 745      | 1,031,555      | 057      | 1,032,787      | 760      | 1,033,529      | 772      | 1,034,620      | 760      | 1,035,663      | 880      |
| 1,029,411      | 008      | 1,030,393      | 041      | 1,031,575      | 714      | 1,032,795      | 714      | 1,033,532      | 081      | 1,034,664      | 771      | 1,035,666      | 789      |
| 1,029,425      | 628      | 1,030,437      | 030      | 1,031,594      | 063      | 1,032,799      | 707      | 1,033,550      | 874      | 1,034,680      | 766      | 1,035,675      | 833      |
| 1,029,432      | 622      | 1,030,442      | 740      | 1,031,622      | 575      | 1,032,812      | 822      | 1,033,567      | 734      | 1,034,614      | 723      | 1,035,706      | 733      |
| 1,029,437      | 049      | 1,030,443      | 740      | 1,031,636      | 056      | 1,032,815      | 821      | 1,033,571      | 703      | 1,034,620      | 756      | 1,035,709      | 705      |
| 1,029,438      | 789      | 1,030,448      | 810      | 1,031,643      | 075      | 1,032,828      | 747      | 1,033,573      | 704      | 1,034,648      | 793      | 1,035,717      | 835      |
| 1,029,441      | 574      | 1,030,449      | 752      | 1,031,646      | 712      | 1,032,830      | 746      | 1,033,579      | 821      | 1,034,655      | 797      | 1,035,725      | 789      |
| 1,029,442      | 574      | 1,030,466      | 008      | 1,031,647      | 587      | 1,032,831      | 707      | 1,033,588      | 704      | 1,034,656      | 874      | 1,035,728      | 706      |
| 1,029,443      | 574      | 1,030,463      | 080      | 1,031,673      | 087      | 1,032,832      | 757      | 1,033,604      | 706      | 1,034,657      | 794      | 1,035,777      | 706      |
| 1,029,450      | 700      | 1,030,474      | 006      | 1,031,678      | 071      | 1,032,833      | 780      | 1,033,605      | 706      | 1,034,658      | 794      | 1,035,798      | 842      |
| 1,029,452      | 574      | 1,030,479      | 701      | 1,031,682      | 570      | 1,032,834      | 801      | 1,033,606      | 706      | 1,034,659      | 794      | 1,035,800      | 847      |
| 1,029,466      | 570      | 1,030,488      | 789      | 1,031,704      | 585      | 1,032,835      | 801      | 1,033,644      | 705      | 1,034,674      | 705      | 1,035,875      | 797      |
| 1,029,470      | 575      | 1,030,503      | 575      | 1,031,716      | 063      | 1,032,836      |          |                |          |                |          |                |          |

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|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|
| 1,930,083      | 845      | 1,936,090      | 934      | 1,937,750      | 860      | 1,938,600      | 825      | 1,930,659      | 800      | 1,940,060      | 909      | 1,942,143      | 784      |
| 1,930,086      | 790      | 1,937,037      | 961      | 1,937,788      | 730      | 1,938,620      | 918      | 1,930,667      | 1065     | 1,940,074      | 824      | 1,942,195      | 951      |
| 1,930,090      | 825      | 1,937,039      | 907      | 1,937,813      | 897      | 1,938,642      | 805      | 1,930,670      | 890      | 1,940,083      | 877      | 1,942,196      | 790      |
| 1,930,091      | 825      | 1,937,043      | 962      | 1,937,820      | 1010     | 1,938,647      | 910      | 1,930,678      | 735      | 1,940,707      | 768      | 1,942,201      | 897      |
| 1,930,092      | 844      | 1,937,060      | 719      | 1,937,822      | 1015     | 1,938,652      | 853      | 1,930,692      | 974      | 1,940,714      | 768      | 1,942,288      | 785      |
| 1,930,093      | 824      | 1,937,064      | 966      | 1,937,832      | 1010     | 1,938,662      | 896      | 1,930,693      | 738      | 1,940,725      | 910      | 1,942,299      | 899      |
| 1,930,100      | 850      | 1,937,065      | 968      | 1,937,837      | 1015     | 1,938,670      | 1001     | 1,930,694      | 738      | 1,940,726      | 870      | 1,942,355      | 705      |
| 1,930,115      | 934      | 1,937,094      | 719      | 1,937,844      | 801      | 1,938,671      | 1001     | 1,930,696      | 738      | 1,940,753      | 737      | 1,942,371      | 951      |
| 1,930,130      | 705      | 1,937,105      | 972      | 1,937,855      | 737      | 1,938,672      | 1001     | 1,930,708      | 750      | 1,940,760      | 909      | 1,942,373      | 951      |
| 1,930,154      | 703      | 1,937,110      | 879      | 1,937,861      | 897      | 1,938,674      | 1067     | 1,930,710      | 737      | 1,940,762      | 737      | 1,942,374      | 951      |
| 1,930,155      | 708      | 1,937,113      | 870      | 1,937,865      | 1012     | 1,938,677      | 738      | 1,930,730      | 1070     | 1,940,768      | 925      | 1,942,375      | 951      |
| 1,930,156      | 708      | 1,937,116      | 953      | 1,937,873      | 870      | 1,938,691      | 1059     | 1,930,773      | 896      | 1,940,807      | 868      | 1,942,382      | 802      |
| 1,930,157      | 981      | 1,937,133      | 860      | 1,937,885      | 1010     | 1,938,693      | 1070     | 1,930,795      | 1065     | 1,940,811      | 802      | 1,942,386      | 921      |
| 1,930,167      | 717      | 1,937,170      | 968      | 1,937,914      | 870      | 1,938,714      | 806      | 1,930,839      | 870      | 1,940,813      | 737      | 1,942,413      | 932      |
| 1,930,181      | 791      | 1,937,187      | 723      | 1,937,934      | 1016     | 1,938,716      | 1005     | 1,930,850      | 1076     | 1,940,814      | 767      | 1,942,418      | 930      |
| 1,930,199      | 843      | 1,937,190      | 704      | 1,937,937      | 1010     | 1,938,722      | 820      | 1,930,858      | 1076     | 1,940,837      | 907      | 1,942,430      | 921      |
| 1,930,210      | 790      | 1,937,196      | 868      | 1,937,941      | 909      | 1,938,734      | 909      | 1,930,860      | 1040     | 1,940,893      | 910      | 1,942,431      | 835      |
| 1,930,221      | 862      | 1,937,199      | 706      | 1,937,943      | 737      | 1,938,802      | 820      | 1,930,874      | 1065     | 1,940,931      | 909      | 1,942,438      | 924      |
| 1,930,222      | 844      | 1,937,205      | 908      | 1,937,944      | 756      | 1,938,803      | 799      | 1,930,930      | 790      | 1,940,946      | 737      | 1,942,446      | 817      |
| 1,930,230      | 805      | 1,937,225      | 796      | 1,937,946      | 748      | 1,938,814      | 735      | 1,930,932      | 805      | 1,940,948      | 735      | 1,942,478      | 890      |
| 1,930,231      | 835      | 1,937,226      | 809      | 1,937,950      | 750      | 1,938,817      | 869      | 1,930,916      | 871      | 1,940,962      | 767      | 1,942,480      | 870      |
| 1,930,248      | 704      | 1,937,230      | 908      | 1,937,958      | 738      | 1,938,827      | 873      | 1,930,947      | 801      | 1,940,974      | 761      | 1,942,491      | 931      |
| 1,930,250      | 797      | 1,937,250      | 870      | 1,937,962      | 825      | 1,938,830      | 853      | 1,930,951      | 853      | 1,940,975      | 790      | 1,942,531      | 933      |
| 1,930,252      | 847      | 1,937,265      | 705      | 1,937,963      | 825      | 1,938,841      | 804      | 1,930,970      | 952      | 1,940,977      | 766      | 1,942,532      | 902      |
| 1,930,265      | 705      | 1,937,269      | 824      | 1,937,967      | 760      | 1,938,864      | 853      | 1,930,990      | 903      | 1,940,987      | 824      | 1,942,583      | 844      |
| 1,930,307      | 717      | 1,937,284      | 824      | 1,937,969      | 853      | 1,938,895      | 863      | 1,930,993      | 952      | 1,940,988      | 824      | 1,942,584      | 816      |
| 1,930,309      | 724      | 1,937,285      | 824      | 1,937,995      | 782      | 1,938,901      | 876      | 1,930,994      | 952      | 1,940,989      | 824      | 1,942,601      | 836      |
| 1,930,334      | 847      | 1,937,292      | 720      | 1,938,015      | 934      | 1,938,902      | 876      | 1,930,995      | 952      | 1,940,993      | 737      | 1,942,622      | 1008     |
| 1,930,348      | 847      | 1,937,317      | 707      | 1,938,037      | 737      | 1,938,911      | 860      | 1,940,013      | 907      | 1,941,000      | 736      | 1,942,650      | 951      |
| 1,930,349      | 847      | 1,937,321      | 718      | 1,938,045      | 736      | 1,938,912      | 860      | 1,940,026      | 804      | 1,941,009      | 892      | 1,942,650      | 951      |
| 1,930,355      | 836      | 1,937,323      | 835      | 1,938,046      | 801      | 1,938,927      | 809      | 1,940,031      | 906      | 1,941,010      | 918      | 1,942,660      | 920      |
| 1,930,364      | 833      | 1,937,334      | 967      | 1,938,072      | 738      | 1,938,934      | 737      | 1,940,036      | 907      | 1,941,055      | 833      | 1,942,662      | 815      |
| 1,930,397      | 843      | 1,937,365      | 880      | 1,938,078      | 850      | 1,938,945      | 869      | 1,940,041      | 1060     | 1,941,097      | 875      | 1,942,685      | 924      |
| 1,930,406      | 842      | 1,937,366      | 885      | 1,938,094      | 918      | 1,938,949      | 924      | 1,940,050      | 870      | 1,941,142      | 874      | 1,942,708      | 923      |
| 1,930,410      | 847      | 1,937,381      | 908      | 1,938,101      | 1017     | 1,938,961      | 1065     | 1,940,100      | 1000     | 1,941,154      | 829      | 1,942,736      | 932      |
| 1,930,427      | 826      | 1,937,383      | 825      | 1,938,116      | 870      | 1,938,975      | 736      | 1,940,115      | 1040     | 1,941,169      | 870      | 1,942,757      | 932      |
| 1,930,456      | 860      | 1,937,385      | 704      | 1,938,177      | 870      | 1,938,976      | 877      | 1,940,118      | 1057     | 1,941,188      | 760      | 1,942,760      | 924      |
| 1,930,457      | 860      | 1,937,390      | 718      | 1,938,121      | 916      | 1,938,991      | 917      | 1,940,123      | 1057     | 1,941,207      | 875      | 1,942,764      | 933      |
| 1,930,479      | 795      | 1,937,395      | 723      | 1,938,122      | 916      | 1,938,990      | 907      | 1,940,133      | 1060     | 1,941,220      | 898      | 1,942,8        | 921      |
| 1,930,483      | 796      | 1,937,396      | 718      | 1,938,123      | 916      | 1,938,918      | 872      | 1,940,146      | 875      | 1,941,260      | 829      | 1,942,801      | 910      |
| 1,930,484      | 797      | 1,937,410      | 800      | 1,938,124      | 916      | 1,938,933      | 1057     | 1,940,190      | 738      | 1,941,266      | 869      | 1,942,812      | 1003     |
| 1,930,487      | 843      | 1,937,417      | 719      | 1,938,125      | 916      | 1,938,973      | 1057     | 1,940,197      | 738      | 1,941,267      | 899      | 1,942,817      | 816      |
| 1,930,500      | 797      | 1,937,419      | 717      | 1,938,133      | 830      | 1,938,985      | 837      | 1,940,198      | 738      | 1,941,271      | 766      | 1,942,820      | 921      |
| 1,930,523      | 705      | 1,937,434      | 734      | 1,938,138      | 737      | 1,938,985      | 766      | 1,940,199      | 738      | 1,941,276      | 879      | 1,942,826      | 921      |
| 1,930,533      | 825      | 1,937,437      | 706      | 1,938,172      | 1016     | 1,939,004      | 738      | 1,940,208      | 737      | 1,941,277      | 870      | 1,942,843      | 923      |
| 1,930,584      | 805      | 1,937,450      | 718      | 1,938,173      | 1010     | 1,939,112      | 748      | 1,940,209      | 917      | 1,941,278      | 879      | 1,942,844      | 923      |
| 1,930,589      | 790      | 1,937,460      | 868      | 1,938,175      | 824      | 1,939,119      | 1065     | 1,940,212      | 828      | 1,941,280      | 738      | 1,942,847      | 920      |
| 1,930,543      | 833      | 1,937,462      | 871      | 1,938,177      | 824      | 1,939,143      | 1066     | 1,940,218      | 829      | 1,941,340      | 849      | 1,942,848      | 909      |
| 1,930,550      | 845      | 1,937,465      | 967      | 1,938,178      | 824      | 1,939,169      | 894      | 1,940,227      | 768      | 1,941,350      | 820      | 1,942,853      | 898      |
| 1,930,553      | 834      | 1,937,467      | 710      | 1,938,180      | 824      | 1,939,170      | 871      | 1,940,245      | 768      | 1,941,351      | 897      | 1,942,857      | 817      |
| 1,930,561      | 934      | 1,937,472      | 825      | 1,938,182      | 826      | 1,939,178      | 737      | 1,940,246      | 765      | 1,941,352      | 897      | 1,942,858      | 817      |
| 1,930,563      | 843      | 1,937,477      | 814      | 1,938,202      | 1010     | 1,939,178      | 737      | 1,940,255      | 1086     | 1,941,365      | 736      | 1,942,859      | 817      |
| 1,930,564      | 843      | 1,937,484      | 840      | 1,938,221      | 1010     | 1,939,180      | 761      | 1,940,256      | 1067     | 1,941,368      | 767      | 1,942,874      | 933      |
| 1,930,565      | 843      | 1,937,484      | 960      | 1,938,227      | 761      | 1,939,201      | 878      | 1,940,262      | 1066     | 1,941,390      | 849      | 1,942,878      | 815      |
| 1,930,567      | 825      | 1,937,488      | 960      | 1,938,230      | 1017     | 1,939,212      | 825      | 1,940,280      | 974      | 1,941,414      | 900      | 1,942,879      | 836      |
| 1,930,570      | 808      | 1,937,490      | 969      | 1,938,247      | 738      | 1,939,219      | 861      | 1,940,315      | 974      | 1,941,415      | 906      | 1,942,892      | 902      |
| 1,930,593      | 704      | 1,937,509      | 967      | 1,938,290      | 861      | 1,939,224      | 876      | 1,940,317      | 750      | 1,941,416      | 906      | 1,942,897      | 810      |
| 1,930,599      | 703      | 1,937,521      | 824      | 1,938,291      | 861      | 1,939,231      | 862      | 1,940,352      | 910      | 1,941,440      | 860      | 1,942,902      | 932      |
| 1,930,607      | 825      | 1,937,524      | 960      | 1,938,299      | 829      | 1,939,232      | 801      | 1,940,363      | 830      | 1,941,462      | 780      | 1,942,920      | 817      |
| 1,930,610      | 703      | 1,937,527      | 906      | 1,938,306      | 705      | 1,939,236      | 1078     | 1,940,378      | 750      | 1,941,475      | 784      | 1,942,926      | 932      |
| 1,930,621      | 703      | 1,937,531      | 877      | 1,938,308      | 708      | 1,939,241      | 1005     | 1,940,383      | 849      | 1,941,490      | 784      | 1,942,978      | 950      |
| 1,930,629      | 823      | 1,937,533      | 897      | 1,938,312      | 829      | 1,939,244      | 829      | 1,940,400      | 738      | 1,941,499      | 785      | 1,942,980      | 1093     |
| 1,930,632      | 871      | 1,937,543      | 1077     | 1,938,320      | 895      | 1,939,255      | 872      | 1,940,417      | 761      | 1,941,001      | 791      | 1,942,981      | 846      |
| 1,930,633      | 823      | 1,937,544      | 925      | 1,938,322      | 870      | 1,939,256      | 736      | 1,940,419      | 878      | 1,941,030      | 920      | 1,942,990      | 923      |
| 1,930,636      | 906      | 1,937,552      | 916      | 1,938,323      | 870      | 1,939,263      | 870      | 1,940,431      | 1000     | 1,941,040      | 920      | 1,942,990      | 925      |
| 1,930,652      | 907      | 1,937,613      | 960      | 1,938,324      | 1010     | 1,939,274      | 860      | 1,940,432      | 917      | 1,941,080      | 1000     | 1,943,070      | 847      |
| 1,930,670      | 871      | 1,937,621      | 708      | 1,938,377      | 736      | 1,939,292      | 872      | 1,940,420      | 919      | 1,941,091      | 898      | 1,943,085      | 836      |
| 1,930,681      | 950      | 1,937,620      | 968      | 1,938,388      | 851      | 1,939,301      | 1067     | 1,940,440      | 919      | 1,941,093      | 784      | 1,943,098      | 816      |
| 1,930,682      | 950      | 1,937,631      | 967      | 1,938,389      | 851      | 1,939,305      | 1057     | 1,940,445      | 919      | 1,941,697      | 924      | 1,943,137      | 834      |
| 1,930,697      | 706      | 1,937,632      | 967      | 1,938,390      | 851      | 1,939,322      | 958      | 1,940,448      | 1108     | 1,941,769      | 799      | 1,943,146      | 860      |
| 1,930,714      | 703      | 1,937,633      | 967      | 1,938,391      | 851      | 1,939,326      | 906      | 1,940,459      | 1057     | 1,941,770      | 784      | 1,943,180      | 816      |
| 1,930,718      | 906      | 1,937,634      | 967      | 1,938,431      | 1018     | 1,939,329      | 1057     | 1,940,462      | 1055     | 1,941,771      | 921      | 1,943,181      | 853      |
| 1,930,728      | 703      | 1,937,635      | 967      | 1,938,453      | 823      | 1,939,365      | 910      | 1,940,466      | 899      | 1,941,793      | 923      | 1,943,221      | 924      |
| 1,930,739      | 824      | 1,937,636      | 967      | 1,938,456      | 870      | 1,939,378      | 830      | 1,940,494      | 875      | 1,941,804      | 799      | 1,943,231      | 923      |
| 1,930,742      | 704      | 1,937,637      | 967      | 1,938,461      | 1010     | 1,939,382      | 738      | 1,940,495      | 875      | 1,941,808      | 784      | 1,943,236      | 910      |
| 1,930,752      | 968      | 1,937,638      | 967      | 1,938,464      | 1017     | 1,939,390      | 706      | 1,940,513      | 747      | 1,941,809      | 999      | 1,943,246      | 917      |
| 1,930,799      | 968      |                |          |                |          |                |          |                |          |                |          |                |          |

| No. of Patent. | Page. B. | No. of Patent. | Page. B. | No. of Patent. | Page. B. | No. of Patent. | Page. B. | No. of Patent. | Page. B. | No. of Patent. | Page. B. | No. of Patent. | Page. B. |
|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|
| 1,943,501      | 924      | 1,944,610      | 883      | 1,945,504      | 956      | 1,946,459      | 1022     | 1,947,487      | 945      | 1,948,453      | 1082     | 1,950,089      | 1067     |
| 1,943,513      | 942      | 1,944,639      | 1001     | 1,945,508      | 1000     | 1,946,462      | 1114     | 1,947,488      | 945      | 1,948,464      | 1110     | 1,950,236      | 1040     |
| 1,943,540      | 938      | 1,944,681      | 999      | 1,945,521      | 1048     | 1,946,479      | 1070     | 1,947,491      | 1094     | 1,948,465      | 1071     | 1,950,247      | 1041     |
| 1,943,557      | 863      | 1,944,715      | 998      | 1,945,530      | 1092     | 1,946,508      | 957      | 1,947,497      | 1070     | 1,948,469      | 1110     | 1,950,254      | 1041     |
| 1,943,558      | 808      | 1,944,749      | 998      | 1,945,537      | 1007     | 1,946,511      | 992      | 1,947,498      | 1070     | 1,948,500      | 993      | 1,950,285      | 1041     |
| 1,943,570      | 934      | 1,944,798      | 801      | 1,945,538      | 1007     | 1,946,517      | 983      | 1,947,504      | 962      | 1,948,504      | 992      | 1,950,375      | 1100     |
| 1,943,580      | 864      | 1,944,800      | 884      | 1,945,542      | 980      | 1,946,522      | 967      | 1,947,505      | 992      | 1,948,505      | 1016     | 1,950,444      | 1101     |
| 1,943,617      | 865      | 1,944,803      | 910      | 1,945,543      | 946      | 1,946,560      | 944      | 1,947,510      | 1117     | 1,948,528      | 1048     | 1,950,464      | 1087     |
| 1,943,618      | 864      | 1,944,804      | 910      | 1,945,576      | 1024     | 1,946,580      | 945      | 1,947,522      | 1053     | 1,948,551      | 1013     | 1,950,528      | 1088     |
| 1,943,633      | 904      | 1,944,807      | 883      | 1,945,577      | 1024     | 1,946,597      | 1071     | 1,947,530      | 1118     | 1,948,565      | 1048     | 1,950,621      | 1102     |
| 1,943,653      | 951      | 1,944,818      | 998      | 1,945,578      | 1024     | 1,946,635      | 1054     | 1,947,550      | 1096     | 1,948,580      | 1070     | 1,950,841      | 1118     |
| 1,943,684      | 912      | 1,944,836      | 864      | 1,945,584      | 1021     | 1,946,643      | 1054     | 1,947,577      | 945      | 1,948,582      | 1070     | 1,950,868      | 1088     |
| 1,943,687      | 924      | 1,944,839      | 920      | 1,945,600      | 945      | 1,946,645      | 1054     | 1,947,578      | 1095     | 1,948,583      | 1086     | 1,950,869      | 1088     |
| 1,943,744      | 918      | 1,944,843      | 921      | 1,945,652      | 962      | 1,946,647      | 1070     | 1,947,612      | 968      | 1,948,585      | 1094     | 1,950,932      | 1107     |
| 1,943,767      | 934      | 1,944,861      | 1002     | 1,945,686      | 957      | 1,946,667      | 1051     | 1,947,620      | 1071     | 1,948,606      | 993      | 1,950,942      | 1087     |
| 1,943,806      | 919      | 1,944,867      | 933      | 1,945,689      | 946      | 1,946,688      | 1051     | 1,947,652      | 1094     | 1,948,609      | 992      | 1,950,975      | 1089     |
| 1,943,808      | 892      | 1,944,886      | 957      | 1,945,714      | 1008     | 1,946,701      | 992      | 1,947,662      | 969      | 1,948,720      | 1018     | 1,950,981      | 1093     |
| 1,943,813      | 865      | 1,944,887      | 953      | 1,945,719      | 1022     | 1,946,704      | 1072     | 1,947,700      | 944      | 1,948,750      | 1071     | 1,951,076      | 1097     |
| 1,943,815      | 870      | 1,944,903      | 999      | 1,945,786      | 993      | 1,946,748      | 945      | 1,947,704      | 945      | 1,948,759      | 993      | 1,951,108      | 1108     |
| 1,943,817      | 884      | 1,944,906      | 957      | 1,945,799      | 998      | 1,946,763      | 992      | 1,947,717      | 1082     | 1,948,836      | 1079     | 1,951,133      | 1107     |
| 1,943,855      | 863      | 1,944,907      | 957      | 1,945,791      | 992      | 1,946,790      | 946      | 1,947,747      | 1118     | 1,948,872      | 1048     | 1,951,183      | 1088     |
| 1,943,858      | 884      | 1,944,910      | 910      | 1,945,803      | 973      | 1,946,818      | 990      | 1,947,750      | 1072     | 1,948,877      | 1035     | 1,951,184      | 1088     |
| 1,943,874      | 863      | 1,944,928      | 864      | 1,945,811      | 960      | 1,946,914      | 993      | 1,947,778      | 951      | 1,948,878      | 1012     | 1,951,185      | 1088     |
| 1,943,875      | 891      | 1,944,978      | 999      | 1,945,812      | 944      | 1,946,918      | 1050     | 1,947,779      | 951      | 1,948,881      | 999      | 1,951,186      | 1102     |
| 1,943,890      | 864      | 1,944,983      | 865      | 1,945,822      | 864      | 1,946,923      | 944      | 1,947,783      | 992      | 1,948,884      | 1035     | 1,951,223      | 1100     |
| 1,943,892      | 921      | 1,945,001      | 998      | 1,945,862      | 1008     | 1,946,952      | 993      | 1,947,784      | 992      | 1,948,943      | 1097     | 1,951,395      | 1109     |
| 1,943,920      | 932      | 1,945,002      | 999      | 1,945,868      | 945      | 1,946,958      | 998      | 1,947,788      | 993      | 1,948,944      | 1097     | 1,951,398      | 1087     |
| 1,943,943      | 904      | 1,945,051      | 942      | 1,945,869      | 1021     | 1,946,990      | 1073     | 1,947,789      | 950      | 1,948,947      | 993      | 1,951,484      | 1093     |
| 1,943,948      | 932      | 1,945,054      | 864      | 1,945,918      | 1035     | 1,947,008      | 1079     | 1,947,792      | 998      | 1,948,948      | 1099     | 1,951,728      | 1097     |
| 1,943,972      | 932      | 1,945,061      | 868      | 1,945,933      | 946      | 1,947,027      | 1052     | 1,947,793      | 998      | 1,948,959      | 1070     | 1,951,787      | 1088     |
| 1,944,007      | 883      | 1,945,102      | 980      | 1,945,968      | 1021     | 1,947,028      | 1052     | 1,947,804      | 945      | 1,948,970      | 1097     | 1,951,800      | 1088     |
| 1,944,608      | 883      | 1,945,114      | 918      | 1,946,002      | 1024     | 1,947,047      | 1052     | 1,947,851      | 945      | 1,949,000      | 1098     | 1,951,814      | 1109     |
| 1,944,621      | 918      | 1,945,121      | 953      | 1,946,003      | 1023     | 1,947,065      | 997      | 1,947,852      | 1035     | 1,949,022      | 993      | 1,951,823      | 1088     |
| 1,944,665      | 892      | 1,945,148      | 938      | 1,946,005      | 1037     | 1,947,068      | 993      | 1,947,855      | 1090     | 1,949,028      | 1099     | 1,951,891      | 1093     |
| 1,944,666      | 892      | 1,945,148      | 938      | 1,946,005      | 1037     | 1,947,085      | 999      | 1,947,861      | 1048     | 1,949,038      | 1012     | 1,951,897      | 1109     |
| 1,944,674      | 863      | 1,945,173      | 957      | 1,946,010      | 1052     | 1,947,086      | 999      | 1,947,873      | 1098     | 1,949,057      | 1072     | 1,951,898      | 1100     |
| 1,944,109      | 920      | 1,945,175      | 953      | 1,946,039      | 945      | 1,947,103      | 1054     | 1,947,888      | 1054     | 1,949,087      | 992      | 1,952,099      | 1088     |
| 1,944,122      | 998      | 1,945,177      | 953      | 1,946,040      | 1003     | 1,947,104      | 1054     | 1,947,889      | 1054     | 1,949,117      | 993      | 1,952,105      | 1089     |
| 1,944,123      | 941      | 1,945,183      | 954      | 1,946,068      | 1004     | 1,947,105      | 1054     | 1,947,923      | 946      | 1,949,122      | 994      | 1,952,114      | 1089     |
| 1,944,129      | 951      | 1,945,202      | 956      | 1,946,067      | 1007     | 1,947,106      | 1054     | 1,947,927      | 967      | 1,949,181      | 1086     | 1,952,119      | 1101     |
| 1,944,130      | 951      | 1,945,205      | 957      | 1,946,077      | 962      | 1,947,107      | 1054     | 1,947,989      | 1094     | 1,949,212      | 993      | 1,952,120      | 1100     |
| 1,944,131      | 951      | 1,945,215      | 871      | 1,946,079      | 1003     | 1,947,108      | 1054     | 1,948,042      | 1048     | 1,949,229      | 1102     | 1,952,143      | 1109     |
| 1,944,170      | 1000     | 1,945,232      | 863      | 1,946,080      | 1003     | 1,947,115      | 1082     | 1,948,046      | 1072     | 1,949,230      | 1048     | 1,952,158      | 1100     |
| 1,944,175      | 1000     | 1,945,235      | 910      | 1,946,094      | 1001     | 1,947,159      | 1054     | 1,948,052      | 945      | 1,949,231      | 1048     | 1,952,211      | 1088     |
| 1,944,192      | 998      | 1,945,236      | 883      | 1,946,095      | 1001     | 1,947,160      | 1084     | 1,948,080      | 968      | 1,949,233      | 1079     | 1,952,308      | 1089     |
| 1,944,236      | 1001     | 1,945,246      | 953      | 1,946,096      | 1001     | 1,947,200      | 1019     | 1,948,085      | 998      | 1,949,242      | 993      | 1,952,322      | 1088     |
| 1,944,241      | 932      | 1,945,250      | 957      | 1,946,131      | 1001     | 1,947,219      | 1048     | 1,948,125      | 993      | 1,949,260      | 1084     | 1,952,363      | 1107     |
| 1,944,243      | 865      | 1,945,270      | 954      | 1,946,169      | 1049     | 1,947,237      | 1082     | 1,948,126      | 946      | 1,949,279      | 993      | 1,952,402      | 1107     |
| 1,944,250      | 955      | 1,945,281      | 864      | 1,946,202      | 1003     | 1,947,248      | 990      | 1,948,161      | 1094     | 1,949,374      | 992      | 1,952,406      | 1089     |
| 1,944,267      | 864      | 1,945,307      | 953      | 1,946,203      | 1055     | 1,947,295      | 1077     | 1,948,163      | 1048     | 1,949,380      | 1012     | 1,952,468      | 1087     |
| 1,944,268      | 864      | 1,945,310      | 950      | 1,946,204      | 1055     | 1,947,303      | 946      | 1,948,164      | 1048     | 1,949,384      | 1112     | 1,952,464      | 1088     |
| 1,944,273      | 871      | 1,945,312      | 954      | 1,946,205      | 1055     | 1,947,306      | 1048     | 1,948,276      | 1053     | 1,949,391      | 1108     | 1,952,574      | 1088     |
| 1,944,274      | 954      | 1,945,330      | 957      | 1,946,218      | 1025     | 1,947,315      | 1089     | 1,948,281      | 1094     | 1,949,392      | 1041     | 1,952,584      | 1107     |
| 1,944,294      | 884      | 1,945,336      | 864      | 1,946,219      | 960      | 1,947,330      | 1083     | 1,948,286      | 1094     | 1,949,427      | 1040     | 1,952,638      | 1087     |
| 1,944,378      | 956      | 1,945,344      | 910      | 1,946,245      | 1003     | 1,947,338      | 944      | 1,948,287      | 1095     | 1,949,524      | 1059     | 1,952,664      | 1102     |
| 1,944,391      | 864      | 1,945,345      | 1035     | 1,946,252      | 944      | 1,947,359      | 1047     | 1,948,292      | 1072     | 1,949,529      | 1095     | 1,952,660      | 1087     |
| 1,944,400      | 953      | 1,945,346      | 940      | 1,946,254      | 1050     | 1,947,366      | 945      | 1,948,298      | 948      | 1,949,534      | 1054     | 1,952,675      | 1089     |
| 1,944,419      | 917      | 1,945,347      | 940      | 1,946,255      | 1050     | 1,947,381      | 945      | 1,948,323      | 1054     | 1,949,563      | 1047     | 1,952,717      | 1109     |
| 1,944,449      | 891      | 1,945,350      | 919      | 1,946,260      | 1050     | 1,947,414      | 1070     | 1,948,330      | 1095     | 1,949,616      | 1041     | 1,952,757      | 1100     |
| 1,944,452      | 884      | 1,945,354      | 954      | 1,946,257      | 1050     | 1,947,416      | 1070     | 1,948,334      | 1073     | 1,949,619      | 1041     | 1,952,784      | 1087     |
| 1,944,464      | 933      | 1,945,364      | 893      | 1,946,258      | 1050     | 1,947,419      | 1054     | 1,948,342      | 1095     | 1,949,623      | 1108     | 1,952,787      | 1118     |
| 1,944,479      | 1000     | 1,945,405      | 955      | 1,946,259      | 1050     | 1,947,429      | 945      | 1,948,343      | 1071     | 1,949,641      | 1040     | 1,952,788      | 1088     |
| 1,944,480      | 1000     | 1,945,407      | 865      | 1,946,270      | 966      | 1,947,432      | 1083     | 1,948,346      | 1047     | 1,949,647      | 1040     | 1,952,923      | 1109     |
| 1,944,483      | 1001     | 1,945,421      | 932      | 1,946,272      | 931      | 1,947,438      | 993      | 1,948,363      | 993      | 1,949,660      | 1067     | 1,953,023      | 1160     |
| 1,944,491      | 1002     | 1,945,436      | 940      | 1,946,282      | 999      | 1,947,447      | 993      | 1,948,378      | 1048     | 1,949,696      | 1041     | 1,957,888      | 861      |
| 1,944,523      | 998      | 1,945,449      | 956      | 1,946,327      | 927      | 1,947,451      | 1055     | 1,948,382      | 950      | 1,949,775      | 1041     |                |          |
| 1,944,528      | 932      | 1,945,461      | 935      | 1,946,368      | 1082     | 1,947,452      | 1055     | 1,948,419      | 968      | 1,949,841      | 1085     |                |          |
| 1,944,550      | 864      | 1,945,479      | 998      | 1,946,419      | 1003     | 1,947,458      | 1072     | 1,948,433      | 962      | 1,949,857      | 1040     |                |          |
| 1,944,562      | 892      | 1,945,500      | 919      | 1,946,446      | 1093     | 1,947,485      | 951      | 1,948,442      | 1055     | 1,949,884      | 1059     |                |          |
| 1,944,568      | 921      | 1,945,501      | 954      | 1,946,447      | 1031     | 1,947,486      | 962      | 1,948,449      | 1093     | 1,950,020      | 1041     |                |          |

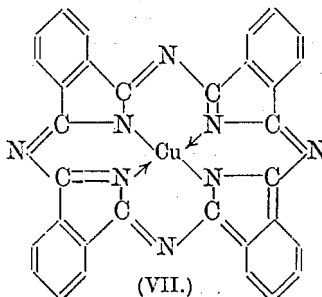
# ERRATA.

## ABSTRACTS A., 1930 (PURE CHEMISTRY).

| page. | col. | line.          |  |
|-------|------|----------------|--|
| 260   | 2    | 7*             | For "carrots" read "beetroots."  |
| 1931. |      |                |  |
| 1342  | 1    | 6              | The formula for <i>K</i> atractylate should be $C_{30}H_{50}O_{18}S_2K_2$ (not $C_{25}$ ).   |
| 1932. |      |                |  |
| 651   | 2    | 18 and 17*     | The sentence should read "Puberulic acid is probably not a dihydroxybenzenedicarboxylic acid."   |
| 1933. |      |                |  |
| 40    | 2    | 26*            | For "m.p. $>50^\circ$ " read "at about $50^\circ$ ."   |
| 178   | 2    | 20 and 19*     | For " <i>N</i> -methyl-2:5-di-iodopyridoxyl-2:6-dicarboxylate" read "Na 3:5-di-iodo- <i>N</i> -methylpyridine-2:6-dicarboxylate."  |
| 446   | 1    | 21*            | For "FRÖLICH" read "FRÖHLICH."   |
| 605   | 2    | 11             | For "+5MeOH" read "+0.5MeOH."  |
| 605   | 2    | 14             | For "Crude (I)" read "The crude product from (I) and $SeO_2$ ."  |
| 617   | 2    |                | In the formula for bicuculline, for  read  . |
| 704   |      | 34 and 35      | Delete "(presumably the disulphide)."  |
| 704   |      | 39—41          | The lines "Analogously . . . cysteine" should read "Cysteine with $2-C_{10}H_7SO_2Cl$ yields di(naphthalene-2-sulphonyl)cystine."  |
| 752   |      | 24*            | For "1:8-dihydroxy-2-hydroxymethylanthraquinone" read "1:5:8-trihydroxy-2-hydroxymethylanthraquinone."   |
| 1305  | 1    | 4* and 3*      | For "4- <i>p</i> -Tolylamino-2- <i>p</i> -tolylquinoline" read "4- <i>p</i> -Tolylamino-2- <i>p</i> -tolyl-6-methylquinoline."   |
| 1934. |      |                |  |
| 9     | 1    | 12, 14, 19, 21 | For "purine" read "xanthine."  |
| 9     | 1    | 23             | For "isopurine" read "isoxanthine."  |
| 9     | 1    | 24             | For "xanthinose" read "xanthosine."  |
| 21    | 1    | 10 and 11      | } For "GLOCKER" read "GLOCKLER."   |
| 29    | 1    | 8*             |  |
| 126   | 2    | 11*            | For "quantity" read "range."   |
| 139   | 1    | 14             | For "NORRISH" read "NEGISHI."  |
| 152   | 1    | 25             | For "MACKOWER" read "MAKOWER."   |
| 229   | 2    | 34 and 35      | The lines should read "The HCN content of stems is < that of leaves."  |
| 250   | 1    | 22             | For "KRUMBOLTZ" read "KRUMBOLTZ."  |
| 279   | 2    | 1              | For "BUCKHART" read "BURKHART."  |
| 295   | 1    | 29             | For "H. PÖPE" read "K. PÖPL."  |
| 322   | 2    | 21             | For "SAITO" read "SATO."   |
| 358   | 2    | 16*            | For "RIGION" read "RIDGION."   |
| 374   | 1    | 2              | For "HULBERT" read "HULBURT."  |
| 391   | 1    | 28*            | For "SCHLEIBLER" read "SCHEIBLER."   |
| 411   | 1    | 16*            | For "3:5-dimethylcarbazole" read "3:6-dimethylcarbazole" (see <i>Annalen</i> , 1934, 509, 303).  |
| 412   | 1    | 4              | For "E. A. EVANS" read "E. A. EVANS, jun."   |
| 420   | 2    | 25, 27         | For <b>XL</b> and <b>XLI</b> read <b>XLI</b> and <b>XLII</b> respectively.   |
| 421   | 1    | 22*            | For <b>XLII</b> read <b>XLIII</b> .  |
| 446   | 1    | 15             | For "KATASKA" read "KATAOKA."  |
| 486   | 2    | 15*            | For "FEDEROV" read "FEDOROV."  |
| 488   | 1    | 25*            | For "M. P. U. IYER" read "M. P. V. IYER."  |
| 500   | 2    | 30*            | For "WEILANDT" read "WEILAND."   |
| 510   | 1    | 17*            | For "V. VIEBÖCK" read "F. VIEBÖCK."  |
| 511   | 2    | 7*             | For "BRUZAN" read "BRUZAU."  |
| 550   | 1    | 14*            | For "RUBINSTEIN" read "RUBENSTEIN."  |
| 550   | 2    | 17*            | For "FEDEROV" read "FEDOROV."  |
| 630   | 2    | 16*            | For "MAHLE" read "MAILHE."   |
| 644   | 2    | 9*             | For "-phenylpropargyldimethylammonium" read "phenylpropargylpyridinium."   |
| 644   | 2    | 1*             | For "ω-dimethylamino-" read "ω-piperidino-."   |
| 652   | 2    | 17             | For "BORSCHKE" read "BORSCHKE."  |
| 678   | 1    | 16*            | For "WILHELJ" read "WILHELMJ."   |
| 713   | 1    | 19             | For "Te = 126.61" read "Te = 127.61." For "Yt" read "Yb."  |
| 757   | 2    | 19             | For "MATACHOWSKI" read "MAŁACHOWSKI."  |
| 772   | 1    | 9*             | For "3-chloro-" read "2-chloro-" in both cases.  |
| 814   | 1    | 18*            | For "ROUZARD" read "ROUZAUD."  |
| 820   | 2    | 6*             | For " $C_{27}H_{45}O \cdot C_6H_{11}O_5$ " read " $C_{27}H_{45}O \cdot C_6H_{11}O_5$ ."  |
| 829   | 2    | 12*            | For "I. R. RAO" read "I. R. RAO."  |
| 832   | 1    | 17             | For "1932" read "1923."  |

\* From bottom.

| page. | col. | line.       |  |
|-------|------|-------------|--|
| 837   | 1    | 14*         | For "KANNULINK" read "KANNULUIK."  |
| 853   | 2    | 33          | For "31" read "41."  |
| 884   | 1    | 8*          | For "COOK" read "CROOK."   |
| 885   | 2    | 25* and 24* | For "A. I. BERKENGEIM" read "A. M. BERKENHEIM."                          |
| 895   | 2    | 23*         | For "BERKENGEIM" read "BERKENHEIM."                                      |
| 908   | 1    | 1*          | For "LIETHE" read "LEITHE."  |
| 925   | 1    | 10*         | For "1" "1."   |
| 945   | 1    | 28—29       | For "bis-anti-benzylmethyldioxime" read "bis-anti-benzylmethylglyoxime." |
| 961   | 1    | 19          | For "1mm" read "1 mm."   |
| 970   | 2    | 30*         | After "benzylpyridinium nitrate" insert "(picrate, m.p. 118°)."          |
| 1036  | 1    | 18*         | For "Astragulus" read "Astragalus."                                      |
| 1045  | 1    | 21          | For "THORN" read "THOR."   |
| 1088  | 1    | 20          | For "E. K. GERLING" read "E. K. HERLING."                                |
| 1089  | 2    | 16* and 15* | For "dimethyl-γ-chloroallylamine" read "diethyl-γ-chloroallylamine."     |
| 1109  | 1    | 31 and 34   | Delete "dichloro" in each case.  |
| 1114  | 2    |             | The formula (VI) should be replaced by the following :                   |



|      |   |     |  |
|------|---|-----|--|
| 1136 | 2 | 20  | For "NOAZKI" read "NOZAKI."              |
| 1141 | 2 | 11  | For "SPEELMAN" read "SPEELMAN."          |
| 1169 | 2 | 11* | For "wood charcoal" read "charcoal."     |
| 1169 | 2 | 8*  | For "wood" read "highly purified sugar." |
| 1183 | 1 | 16  | For "ACHENBRACH" read "ACHENBACH."       |
| 1291 | 2 | 15  | For "KURCHATOV" read "KURTSCHATOV."      |
| 1310 | 1 | 5*  | For "M. KIESSLING" read "W. KIESSLING."  |
| 1312 | 2 | 4*  | For "SORENSEN" read "SÖRENSEN."          |
| 1322 | 2 | 29  | For "H. VERSLUYS" read "J. VERSLUYS."    |
| 1411 | 2 | 22* | For "ROE" read "ROWE."                   |

### ABSTRACTS B., 1934 (APPLIED CHEMISTRY).

| page. | col. | line.     |  |
|-------|------|-----------|--|
| 57    | 1    | 20        | For "SANDBORN" read "SANBORN."                     |
| 65    | 1    | 16*       | For "PITARD" read "PITTARD."                       |
| 99    | 1    | 19*       | For "WEATHERBY" read "WEATHERLY."                  |
| 169   | 1    | 17*       | For "COLLAGE" read "COTTAGE."                      |
| 218   | 1    | 2         | For "BRUGGEMANN" read "BRÜGGEMANN."                |
| 222   | 2    | 30 and 31 | For "Nature, 1934, 125," read "Lancet, 1934, 226." |
| 252   | 2    | 5         | For "C. E. POE" read "C. F. POE."                  |
| 337   | 1    | 22*       | For "LABAZIN" read "LABZIN."                       |
| 453   | 2    | 29        | For "O. MAASS" read "G. R. LUSBY and O. MAASS."    |
| 601   | 1    | 18*       | For "GFUNNDER" read "GFUNDNER."                    |
| 689   | 1    | 20*       | For "REISS" read "RIESS."                          |
| 997   | 2    | 30*       | For "W. STEINITZ" read "E. W. STEINITZ."           |
| 1107  | 2    | 6*        | For "JACOBSEN" read "JACOBSON."                    |
| 1112  | 1    | 18        | For "KÜNZTEL" read "KÜNTZEL."                      |

### ABSTRACTS INDEX, 1933.

| page. | col. | line. |                             |
|-------|------|-------|-----------------------------|
| 5     | 2    | 15*   | For "855" read "885."       |
| 113   | 2    | 18    | For "GHATUK" read "GHATAK." |

### ABSTRACTS INDEX, 1934.

| page. | col. | line. |   |
|-------|------|-------|---|
| 4     | 2    | 14*   | For "ACHENBRACH" read "ACHENBACH."              |
| 68    | 3    | 7*    | For "WOODWARD" read "WOODARD."                  |
| 101   | 2    | 28    | should read "Evans, E. A., jun. See Jensen, H." |
| 171   | 3    | 16    | should read "and Evans, E. A., jun."            |